Kansas ___ State Agricultural College

Catalogue, 1895='96

KANSAS STATE UNIVERSITY LIBRARY

SPECIAL COLLECTIONS



THIRTY=THIRD ANNUAL CATALOGUE

OF THE

Officers, Students and Graduates

OF THE

KANSAS STATE

Agricultural College.

1895='96.

MANHATTAN, KANSAS. 1896.

Terms and Vacations.

Fall Term, 1896.

Wednesday, September 9.—Examination for admission, at 9 a. m. Thursday, September 10.—College year begins.

Saturday, October 24.—Examination.

Saturday, December 5.—Annual exhibition of the Alpha Beta Society.

Friday and Saturday, December 18, 19.—Examination at close of fall term.

December 20 to January 4.—Winter vacation.

Winter Term, 1897.

Monday, January 4.—Examination for admission, at 9 a. m.
Tuesday, January 5.—Winter term begins.
Saturday, January 30.—Annual exhibition of the Hamilton Society.
Saturday, February 13.—Examination.
Saturday, March 13.—Annual exhibition of the Webster Society.
Friday and Saturday, March 26, 27.—Examination at close of winter term.

Spring Term, 1897.

Tuesday, March 30.—Spring term begins.

Saturday, April 24.—Annual exhibition of the Ionian Society.

Saturday, May 1.—Examination.

Tuesday and Wednesday, June 8, 9.—Examination at close of year.

June 6 to 10.—Exercises of Commencement week.

Thursday, June 10, at 10:30 a. m.—Commencement.

June 11 to September 8.—Summer vacation.

Fall Term, 1897.

Wednesday, September 8.—Examination for admission, at 9 a. m. Thursday, September 9.—College year begins.

Board of Regents.

Hon. A. P. RIDDLE (1899)*, President,†
Minneapolis, Ottawa county.

Hon. C. E. GOODYEAR (1897), Vice-President, Oatville, Sedgwick county.

Hon. C. B. DAUGHTERS (1898), Treasurer, Lincoln, Lincoln county.

Hon. C. R. NOE (1898), Loan Commissioner, Leon, Butler county.

> Hon. C. B. HOFFMAN (1897), Enterprise, Dickinson county.

Hon. S. J. STEWART (1899), Humboldt, Allen county.

PRES. GEO. T. FAIRCHILD (ex officio), Secretary.

I. D. GRAHAM, Assistant Secretary,
Manhattan.

^{*}Term expires. †Resigned April 1896.

Board of Instruction.

FACULTY.

GEORGE T. FAIRCHILD, LL. D. (Oberlin), PRESIDENT, Professor of Logic and Philosophy.

GEORGE H. FAILYER, M. S. (Kansas Agricultural College), Professor of Chemistry and Mineralogy.

EDWIN A. POPENOE, A. M. (Washburn), Professor of Entomology and Zoology.

DAVID ERNEST LANTZ, M. S. (Pennsylvania State Normal),

Professor of Mathematics.

JOHN D. WALTERS, M. S. (Kansas Agricultural College), Professor of Industrial Art and Designing.

> IRA D. GRAHAM, A. M. (Eureka), Secretary, Instructor in Bookkeeping.

OSCAR EUGENE OLIN,
Professor of English Language and Literature.

MRS. NELLIE SAWYER KEDZIE, M. S. (Kansas Agricultural College),
Professor of Household Economy and Hygiene.

Mrs. ELIDA E. WINCHIP,
Superintendent of Sewing.

OZNI P. HOOD, M.S. (Rose Polytechnic), Professor of Mechanics and Engineering, Superintendent of Workshops.

ALEXANDER B. BROWN (Graduate of Boston Music School), A. M. (Olivet), Professor of Music.

JOHN S. C. THOMPSON, Superintendent of Printing.

FRANCIS H. WHITE, A. M. (Princeton), Professor of History and Political Science. CHARLES C. GEORGESON, M.S. (Michigan Agricultural College),
Professor of Agriculture, Superintendent of Farm.

ERNEST R. NICHOLS, D.B. (Iowa State Normal), B.S., A.M. (State University of Iowa),

Professor of Physics.

NELSON S. MAYO, M. S. (Michigan Agricultural College), D.V. S. (Chicago Veterinary College),

Professor of Physiology and Veterinary Science.

JULIUS T. WILLARD, M.S. (Kansas Agricultural College),
Assistant Professor of Chemistry.

ALBERT S. HITCHCOCK, M. S. (Iowa Agricultural College), Professor of Botany.

SILAS C. MASON, M.S. (Kansas Agricultural College), Professor of Horticulture, Superintendent of Orchards and Gardens.

> MISS JOSEPHINE C. HARPER, Instructor in Mathematics.

> > MISS ALICE RUPP, Instructor in English.

HARRY G. CAVENAUGH, Captain 13th U. S. Infantry,
Professor of Military Science and Tactics.

THOMAS ELMER WILL, A. M. (Harvard),
Professor of Economic Science.

JULIA R. PEARCE, B.S. (Kansas Agricultural College), Librarian.

ASSISTANTS AND FOREMEN.

CLAUDE M. BREESE, M. S. (Kansas Agricultural College), Assistant in Chemistry.

WILLIAM BAXTER, Foreman of Greenhouse.

WILLIAM L. HOUSE, Foreman of Carpeuter Shop.

ENOS HARROLD, Foreman of Iron Shop.

L. A. McKEEN,*
Foreman of Farm.

RUTH T. STOKES, B. S., Assistant in Household Economy.

ISABELLA R. FRISBIE, B. S., Assistant in Sewing.

GEORGE SEXTON,†
Foreman of Farm.

STUDENT ASSISTANTS.

CARL D. ADAMS, Horticulture. LOUIS P. BROUS, M. S., Graphics, Surveying. CON M. BUCK, Surveying. GEORGE L. CHRISTENSEN, B. S., Algebra. GEORGE L. CLOTHIER, B. S., Botany, Rhetoricals. CHARLES F. DOANE. Agriculture. GEORGE W. FINLEY, Surveying. M. MAUD GARDINER, B. S., Free-Hand Drawing. PHŒBE E. HAINES, M. S., Drawing. WILLIAM L. HALL, Horticulture. IVY F. HARNER, B. S., Geography, English. LORENA M. HELDER, B. S., Music. JOHN W. HOLLAND, Surveying. HENRY G. JOHNSON, Horticulture. ISAAC JONES, B. S., Horticulture. ROYAL S. KELLOGG, Surveying. BERTHA S. KIMBALL, M. S., Botany. FREDERICK H. MEYER, Horticulture. THEO. W. MORSE, B. S., Horticulture, Arithmetic.

JAMES E. PAYNE, M. S., Arithmetic. ARCHIE C. PECK, Surveying. JOHN POOLE, Surveying. AMBROSE E. RIDENOUR, Agriculture. FREDERICK J. SMITH, B. S., Printing. EDWIN H. WEBSTER, Blacksmithing.

^{*} Until March 1, 1896. †Since March 1, 1896.

Other Officers.

GRACE M. CLARK, B. S., Stenographer in Executive Offices.

LORENA E. CLEMONS, B. S., Clerk in Executive Offices.

CHARLES A. GUNDAKER, Engineer.

ANDREW C. McCREARY, Janitor.

JACOB LUND, M. S., Fireman and Steam Fitter.

Experiment Station.

Council.

PRESIDENT FAIRCHILD, Chairman, ex officio.

PROFESSOR FAILYER, Chemistry.

PROFESSOR POPENOE, Entomology.

PROFESSOR GEORGESON, Agriculture.

PROFESSOR MAYO, Veterinary Science.

PROFESSOR HITCHCOCK, Botany.

PROFESSOR MASON, Horticulture.

I. D. GRAHAM, Secretary.

Assistants.

J. T. WILLARD, M. S., Chemistry.

F. A. MARLATT, B. S., Entomology.

F. C. BURTIS, M. S., Agriculture.

D. H. OTIS, B. S., Agriculture.

J. B. S. NORTON, Botany.

F. C. SEARS, B. S., Horticulture, Foreman of Gardens.

F. W. DUNN, B. S., Irrigation.*

ISAAC JONES, B. S., Irrigation.†

^{*}Until January 1, 1897. †Since May 1, 1896.

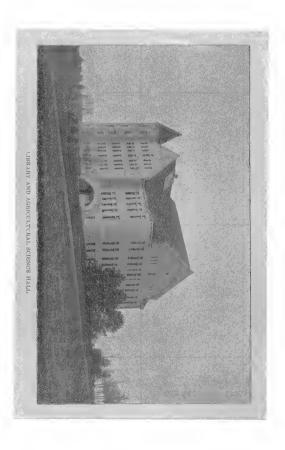
Students.

POST-GRADUATES.

[Note.—Studies pursued during the year printed in italics.]

CANDIDATES FOR MASTER'S DEGREE, 1896.

Effie Jeannetta Zimmerman, '91	Domestic Economy, Chemistry, Music.
James E. Payne, '87	•
Fred. Coleman Sears	
Ruth Tipton Stokes, '92	•
Walter Tennyson Swingle, '90 Naples, Italy.	Botany, Horticulture.
IN COURSE LEADING 1	TO MASTER'S DEGREE.
Carl D. Adams, '95	*
Clara Francelia Castle, '94	
	Physics, Engineering, Mathematics, Botany.
Manhattan, Riley county. Grace Maria Clark, '92 Manhattan, Biley county.	
Lorena Estella Clemons, '94	
George L. Clothier, '92 Vera, Wabaunsee county.	ence.
Daisy Day, '95	Domestic Economy, Chemistry.
Mary Maud Gardiner, '93	Drawina.
Ivy Frances Harner, '93	Domestic Economy, Chemistry, Eco- nomic Science.
Lorena Marguerite Helder, '94	Domestic Economy, Entomology,
Manhattan, Riley county. Isaac Jones, '94 Oakley, Logan county.	
William Henry Moore, '94	Horticulture, Botany, Entomology.
Theo. Wattles Morse, '95	Botany, Horticulture, Drawing.



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	Agriculture, Botany, Political Eco- nomic Science.
Charles Wesley Pape, '95	Zoology, Architecture and Design-
Topeka, Shawnee county.	ing, Botany.
Manhattan, Riley county.	Domestic Economy, Botany, Physics.
	RESIDENT.
George E. Rose	$ Horticulture, \ Entomology.$
Charles Henry Thompson, '93	Botany, Horticulture.
IN ADVANCED WORK I	NOT LEADING TO DEGREE.
Louis P. Brous, '86	Architecture and Designing.
Alverta May Cress, '94	$\ldots Zoology,\ Literature.$
· Manhattan, Riley county.	Industrial Art, Domestic Economy.
Bertha Sarah Kimball, '90	Botany, Entomology, Music.
Stella Victoria Kimball, '94	Music.
Mary C. Lee, '89	Economic Science.
Nellie Perkins Little, '90	Liter a ture, History.
Laura Sarah McKeen, '95	Free-hand Drawing, Botany.
Frederick John Smith, '95	Economic Science.
	•
FOURT	TH YEAR.
Name.	Post-office and County.
Cora Atwell,	. Manhattan, Riley.
May Haines Bowen,	
Con Morrison Buck, . F	
Margaret Iganhana Carleton	Monhotton Dilor

Margaret Isaphene Carleton, Manhattan, Riley. William Annesley Cavenaugh, Manhattan, Riley. Coloma, Woodson. Wabaunsee, Wabaunsee. Ernest Brown Coulson, Cherokee, Oklahoma. Ernest Brown Coulson,
George Henry Dial,
Charles Francis Doane,
George Doll,
John Berthold Dorman,
Bradford Dougherty,
Charles Silar Evans,
Robert Kilby Farrar,
George William Finley,
Morthe For Cleburne, Riley. Louisville, Pottawatomie. Larned, Pawnee. Ballston Spa, New York. Kansas City, Wyandotte. Sunset, Kentucky. Axtell, Marshall. Manhattan, Riley. --Manhattan, Riley.

10 Kansas State Agra	icultural College.
Name.	Post-office and County.
Joanna Freeman,	Riley, Riley.
John Jacob Fryhofer,	Randolph, Riley.
Elmer George Gibson,	Willard, Shawnee.
George Clifton Hall,	Hoyt, Jackson.
Alonzo Charles Havens,	Dwight, Morris.
Gertrude Julia Havens,	Dwight, Morris.
Lawrence Wilbur Hayes,	Manhattan, Riley.
John Warren Holland,	Cokeville, Wyoming.
Henry George Johnson,	Assaria, Saline.
Susan Effic Johnson,	
Marian Elizabeth Jones,	Manhattan, Riley.
Thomas Lormar Jones,	Manhattan, Riley.
Edward Clarence Joss,	Fairview, Brown.
Royal S. Kellogg,	Fay, Russell.
Mark Kirkpatrick,	Fredonia, Wilson.
Edith Lynnette Lantz,	Manhattan, Riley.
Sue Long,	Manhattan, Riley.
Charles W. Lyman,	Manhattan, Riley.
Charles Dwin McCauley,	Wilburn, Ford.
Charles Sumner Marty,	Merriam, Johnson.
Frederick Hugo Meyer,	Menager, (Leavenworth).
Mrs. Elda Lenore Moore,	Manhattan, Riley.
Arthur Houston Morgan,	Hillside, Phillips.
Clara Verena Newell,	Manhattan, Riley.
	Manhattan, Riley.
Ellen Elizabeth Norton, :	Manhattan, Riley.
Hattie A. Paddleford,	Stockdale, Riley.
Mary Kerilla Painter,	Meade, Meade
Elva Luthera Palmer, 74	Clifton, Clay.
Inez Luella Palmer, Barurus	Clifton, Clay.
Fannie Parkinson,	Pomona, Franklin.
Archie Carpenter Peck,	Big Valley, Texas.
4 17 7 . 7	Oakland, Shawnee.
William Oscar Peterson,	
Charles Edwin Pincomb,	Randolph, Riley.
Later Control of the	Hector, Johnson.
John Poole,	Hector, Johnson.
	Briggs, Geary.
Edgar Arthur Powell,	Osage City, Osage.
Lisle Willetts Pursel,	-
Howard Newton Rhodes,	Manhattan, Riley.
Ambrose Elliot Ridenour,	Manhattan, Riley.
Mary Etta Ridenour,	Manhattan, Riley.
saac Archie Robertson,	Manhattan, Riley.
Grace Anna Secrest,	Manhattan, Riley.
Carl Snyder,	Oskaloosa, Jefferson.
Max Gilbert Spalding,	Eureka, Greenwood.
Orville Ashford Stingley,V	Manhattan, Riley.
Sadie Stingley,	Manhattan, Riley.
Gertrude Ella Stump,	Manhattan, Riley.
Miriam Esther Swingle,	Manhattan, Riley.
William Elwood Thackrey, %	Manhattan, Riley.

Name.							Post-office and County.
James Dunbar	Trumbu	111,	 الصقاس	:	٠.		Manhattan, Riley.
Frank Edwin	Uhl, .						Gardner, Johnson.
Edwin H. Web	ster, .						Yates Center, Woodson.

THIRD YEAR.

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Samuel John Adams,						Marvin, Phillips.
Flora Evelyn Allingham, .						Manhattan, Riley.
Roger William Bishoff,						Eudora, Douglas.
George Gordon Boardman,						Centralia, Nemaha.
Hope Brady,						Manhattan, Riley.
Mary Frances Carnell,						Bunker Hill, Russell.
William Burns Chase,						Hoyt, Jackson.
Frank E. Cheadle,						Erwin, Oklahoma.
Robert Waitman Clothier, .				•		Vera, Wabaunsee.
Mabel Crump,						Manhattan, Riley.
Anna Magdalena Dahl,						Webber, Jewell.
Inga Josephine Dahl,						Webber, Jewell.
Fred. Volley Dial,						Cleburne, Riley.
Viola Grace Dille,						Edgerton, Johnson.
Samuel Dolby,						Longford, Clay.
Eugene Emrick,						Lone Tree, Missouri.
Anna Phillipina Engel,						Manhattan, Riley.
Emma Finley,						Manhattan, Riley.
Josephine Finley,						Manhattan, Riley.
Mary Finley,						Manhattan, Riley.
Phillip Fox,						Manhattan, Riley.
Arthur Lorenzo Frowe,						Louisville, Pottawatomie.
William Logan Hall,						Anthony, Harper.
Walter Eugene Hardy,						Manhattan, Riley.
Mary Eliza Haulenbeck, .	·		·	:		Manhattan, Riley.
Myrtle Hattie Hood,						Manhattan, Riley.
Charles Henry Hoop,						Manhattan, Riley.
Winfred Anna Houghton, .	Ċ	·.	i			Manhattan, Riley.
Bret Redmon Hull,	•	•	٠	:		Alta Vista, Wabaunsee.
Bertha Emma Ingman,	•			•		Barnes, Washington.
Clay Berkey Ingman,	•	•				Barnes, Washington.
Ary Cordelia Johnson,	•	•	•	•		Success, Russell.
Gertrude May Lyman,						Manhattan, Riley.
Valentine Maelzer,	•	•	•			Neuchatel, Nemaha.
Sherman Bodwell Newell, .	•	•	•			Zeandale, Riley.
Oliver Esra Noble,	•	•	•	•		Riley, Riley.
Jesse Baker Norton,	•	٠	•			Manhattan, Riley.
Mary Augusta Norton,				•		Manhattan, Riley.
Bertha Olivia Olson,				-	٠	Manhattan, Riley.
Hilda Sophia Olson,						
Ida Rebecca Pape,						Manhattan, Riley.
Russell John Peck,	•	٠		•		Topeka, Shawnee.
				•		Big Valley, Texas.
Emelie Matilde Pfuetze, .						Manhattan, Riley.
Eva Louise Philbrook,	•	•	•	•	٠.	Chepstow, Washington.
Rufus M. Philbrook,	٠	٠	٠			
William Joseph Rhoades, .	•	٠	•	•	•	Gardner, Johnson.

Name.			Post-office and County.
Carl Rice,			Manhattan, Riley.
Thomas Meade Robertson, .			Manhattan, Riley.
Andrew B. Symns,			Brenner, Doniphan.
Edward Shellenbaum,			Randolph, Riley.
Alice Myrtle Shofe,		٠	Manhattan, Riley.
Charles Wesley Shull,			Manhattan, Riley.
Alfred Caleb Smith,			Manhattan, Riley.
Edwin Lee Smith,			Manhattan, Riley.
Phoebe Jane Smith,			Manhattan, Riley.
Louise Mary Spohr,			Manhattan, Riley.
Wilhelmina Henrietta Spohr,			Manhattan, Riley.
Charles Harrison Stokely,			Burlingame, Osage.
Andrew B. Symns,			Brenner, Doniphan.
Harriet Emerson Thackrey, .			Manhattan, Riley.
John E. Trembly,			Council Grove, Morris.
Harriet Agnes Vandivert,			Manhattan, Riley.
Olive Voiles,			Manhattan, Riley.
Elsie Lucile Waters,			Manhattan, Riley.
John Minton Westgate,			Westgate, Geary.
Mark Wheeler,			Bridgeport, Saline.
Clare Annie Wilson,			Mapleton, Bourbon.
Frank Yeoman,			La Crosse, Rush.

SECOND YEAR.

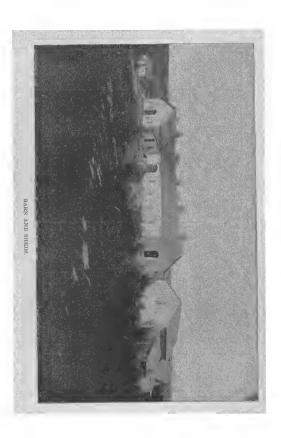
Emory Sherwood Adams, .				Manhattan, Riley.
Joshua William Adams, .				Marvin, Phillips,
Delmer Akin,				Manhattan, Riley.
Thomas Walter Allison, .				Florence, Marion.
William Anderson,			٠	Cleburne, (Pottawatomie).
Elizabeth Edna Asbury, .				Topeka, Shawnee.
Edgar Russell Barker,				Kansas City, Wyandotte.
Alfonso K. Barnes,				Dover, Shawnee.
Jessie G. Bayless,				Yates Center, Woodson.
Eben M. Blachly,				Leonardville, Riley.
John Harold Blachly,				Manhattan, Riley.
Albert Edwin Blair,				Quenemo, Osage.
John Harvey Bower,				Eureka, Greenwood.
Robert Henry Brown,				Manhattan, Riley.
Nellie Louise Burtner,				Manhattan, Riley.
Earl Butterfield,				Hull, Marshall.
Jennette Carpenter,				Orion, Michigan.
Albert Delbert Coe,				Coloma, Woodson.
John Alfred Conover,				Sabetha, Nemaha.
Cecil Edwin Copeland,				Russell, Russell.
Maggie A. Correll,				Manhattan, Riley.
Willett Ranson Correll,				Manhattan, Riley.
Ernest Lerned Cottrell, .				Wabaunsee, Wabaunsee.
Lucy Maria Cottrell,				Wabaunsee, Wabaunsee.
Jessie Estelle McClurg Cou	lso	n,		Manhattan, Riley.
George Retilley Crawford,				Manhattan, Riley.
Carl Crump,				Manhattan, Riley.

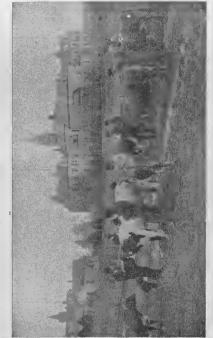
Name.				Post-office and County.
Foster Hamilton Day,				Manhattan, Riley.
Cassie Belle Dille,				Edgerton, Johnson.
Emma Phillipine Doll,		•		Larned, Pawnee.
Lottie Ethel Eakin,				Manhattan, Riley.
Edwin Amos Eggleston,				Columbus, Cherokee.
Henrietta Evans,				Manhattan, Riley.
Cora Elizabeth Ewalt,	•	:	:	Manhattan, Riley.
Edwin Oscar Farrar,				Axtell, Marshall.
Leslie Arthur Fitz,			:	Vinland, Douglas.
Marion Gilkerson,				Manhattan, Riley.
Mabel Claire Gillespie,				Manhattan, Riley.
Harriet Goode,	•		•	Lenexa, Johnson.
Ned Merrill Green,			:	Manhattan, Riley.
Edwin Manoah Haise,				Russell, Russell.
			•	Manhattan, Riley.
			•	Manhattan, Riley.
~ ~ ~ ~ ~~	•		•	• -
	•		٠	Junction City, (Riley).
Elmer Hathaway,	•		•	Grant, Riley.
Lewellyn Gaines Hepworth, Emmett Vivian Hoffman,	٠		•	Burlingame, Osage.
			٠	Enterprise, Dickinson.
	•		٠	Enterprise, Dickinson.
Ina Emma Holroyd,				Manhattan, Riley.
Matthaus Heinrich Horn,			•	Westerbergen, Germany.
Edward Leonard Hougham,	•		٠	Manhattan, Riley.
Guy Dudley Hulett,	•	•	•	Edgerton, Johnson.
John Martin Kessler,			٠	Topeka, Shawnee.
Charles Percy King,	٠	•	•	Ogamaw, Arkansas.
Bessie May Locke,		•	•	Manhattan, Riley.
Olive Long,		٠	٠	Manhattan, Riley.
William Andrew McCullough, .			٠	Delavan, Morris.
George Garfield McDowell,			•	Manhattan, Riley.
John Bird Makins,	•	•	•	Abilene, Dickinson.
Inez Isadore Manchester,			٠	
	•	•	•	
	•	•	٠	
Henry Alba Martin,	•	•	٠	
Alice Maude Melton,	•	•	•	
George Gerkein Menke,	•	•	•	
Mary Frances Minis,	٠	٠	•	Manhattan, Riley.
May Moore,	•	•	•	Manhattan, Riley.
Edna Morrison,	•	•	•	Hillsdale, Miami.
Elizabeth Morrison,	•	•	•	Manhattan, Riley.
Otto Gregory Nachtman,			•	Junction City, Geary.
Louis Anthony Nelson,	•	•	•	
Albert Bulkley Newell,				Manhattan, Riley.
Hattie Grace Nichols,	•	•		
Schuyler Nichols,				Liberal, Seward.
Fred. Robert Nuzman,				Circleville, Jackson.
Mary Elizabeth Paddleford,				Stockdale, Riley.
Lucy Junie Parks,				Manhattan, Riley.

Name.	Post-office and County.
Ernest Byron Patten,	Silver Lake, Shawnee.
William Poole,	
Willis Thomas Pope,	Lincolnville, Marion.
John Purcell,	, -
Otto Independence Purdy,	Fairview, Brown.
Llewellyn Victor Putnam,	
Cassius Clayton Rambo,	Elk Falls, Elk.
Leah Reyburn,	Leavenworth, Leavenworth.
Gertrude Rhodes,	Manhattan, Riley.
Birdie Emma Riley,	Willard, (Wabaunsee).
Mattie Jane Riley,	Willard, (Wabaunsee).
Homer Joseph Robison,	Yates Center, Woodson.
Henry William Rogler,	Matfield Green, Chase.
Stella Amelia St. John,	Wabaunsee, Wabunsee.
Martin Wilbur Sanderson,	Reedville, Marshall.
Olive Shelden,	Manhattan, Riley.
Harry Elwood Smith,	Russell, Russell.
Maurice Russell Smith,	
Harley Lee Snodgrass,	Little River, Rice.
Allen Wilson Staver,	Hector, Johnson.
Harry Ashford Stingley,	Manhattan, Riley.
Grace Jessie Stokes,	Manhattan, Riley.
Tacy Vernon Stokes,	
Otho Strahl,	White City, Morris.
Samuel Morris Strawn,	Valley Falls, Jefferson.
Cora Thackrey,	Manhattan, Riley.
Henry Marsden Thomas,	Melvern, Osage.
Elizabeth M. Tunnell,	Manhattan, Riley.
Raymond S. Vail,	Manhattan, Riley,
Minmin Walman	Merriam, Johnson.
T 3 . TTY - 1 / .	Manhattan, Riley.
Margaret Rebecca Warner,	Manhattan, Riley.
Engl Danie TYT-1	
Abner Davis Whipple,	Manhattan, Riley.
Charles Bernard White,	Olivet, Osage.
Adelaide Frances Wilder,	Waverly, Coffey.
	Manhattan, Riley.
Josephine Hannah Wilder, . s	
Nannie Elizabeth Williams,	Edgerton, Johnson.
Alexander George Wilson, . 3	Mapleton, Bourbon.
James Charles Wolcott,	Russell, Russell.
Lona Wolfe,	Manhattan, Riley.
Alice Ethel Wolfley,	
Frederick Zimmerman,	Moray, Doniphan.
Kate Elizabeth Zimmerman,	Moray, Doniphan.
Dipam rn	E A B
FIRST YI	
Bonnie Frances Adams,	Marvin, Phillips.
Eslie Clark Adams, jr.,	Terryton, Finney.
Morris Carpenter Adams, ,	Marvin, Phillips.
Howard Allman,	Manhattan, Riley.
	-

Name.			Post-office and County.
Cecil Girard Anderson,			Manhattan, Riley.
Francis Thornton Anderson,			Sumner, Nebraska.
Marguerite Josephine Anderson, .		•	Manhattan, Riley.
Eva Area,			Broderick, Pottawatomie.
Stella L. Ashton,			Keats, Riley.
Lulu May Avers,			Stockdale, Riley.
Melvia Fairetta Avery,			Manhattan, Riley.
Francis W. Balcomb,			Success, Russell.
William Burgess Banning,			Lyndon, Osage.
Frank Henry Barber,			Briggs, Geary.
Claude Raymond Bardrick,			Miltonvale, Cloud.
Henry Fahs Barlow,			Olney, Illinois.
Etta Barnard,			Manhattan, Riley.
Maude Barnes,			Alma, Wabaunsee.
Charles Edward Basley,			Jefferson, Oklahoma.
Mary Elizabeth Becker,			Kanopolis, Ellsworth.
Ernest W. Bidwell,			Agra, Phillips.
Thomas Bilson,		:	Eureka, Greenwood.
Minerva Blachly,	•		Manhattan, Riley.
Grace Greenwood Black,	•		Topeka, Shawnee.
Charles Edward Blackburn,			Matfield Green, Chase.
Hayes Blair,		•	Alida, Geary.
Otis Neel Blair,			Quenemo, Osage.
Stella Blaney,	•	:	Manhattan, Riley.
Katie Hope Blythe,	•	•	Keats, Riley.
Fred. Winchester Bobbitt,	•	•	Tulsa, Indian Territory.
Lillie Grace Bolton,		•	Paxico, Wabaunsee.
James Courtney Bolton,			Paxico, Wabaunsee.
William Watkins Bolton,			Paxico, Wabaunsee.
John Patrick Boyle,	•		Newman, Jefferson.
Mary Elizabeth Boyle,	•	•	Newman, Jefferson.
Albert Elwood Branscom,	•	•	Industry, Clay.
Emma Belle Brewer,	•	•	Ogden, Riley.
John W. Brightop,	•	•	
Horace W. Britton,		•	Hollis, Cloud.
Georgia Brooks	•	•	Hall Summit, Coffey.
Georgia Brooks,	•	٠	Manhattan, Riley.
Por M Prour	•	•	Marion, Marion.
Roy M. Brown,	•		Marion, Marion.
Zernie De Earl Brown,	٠	•	Twin Mound, Douglas.
Arthur Kinney Browning,	•		Lincoln Center, Lincoln.
Elizabeth Barrett Browning, Alice Elizabeth Butterfield,	•	•	Manhattan, Riley.
Clare Drittenfeld	•	•	Overbrook, Osage.
Clara Butterfield,	•	•	Overbrook, Osage.
Joseph Abbott Butterfield,	•	•	Topeka, Shawnee.
James Wiley Cain,	•	•	Burlingame, Osage.
Thomas Edward Carrigan,	٠	•	Brenner, Doniphan.
Levi Leland Chandler,	•	•	Bazaar, Chase.
Myra Florence Chandler,	•	•	
Sophronia Del Channell,	•	•	× •
Claud Egbert Chapman,		•	Cawker City, Mitchell.
Roy Raymond Chipman,		•	Minneapolis, Ottawa.

Name. Charles Tracy Clark,						Post-office and County. Lawrence, Douglas.
Everett G. Clark,					•	Beverly, Lincoln.
Ezra James Clark,						Manhattan, Riley.
William James Clydesdale,					•	, -
						Gaylord, Smith.
William Noah Coffey,					٠	Manhattan, Riley.
Frank Burdette Conner, .	٠	٠	•	•	٠	New Lancaster, Miami.
Joseph Bryson Corbett,					٠	Manhattan, Riley.
Harry Corliss,	•	٠	•	•	٠	Cedar Junction, Johnson.
Carrie Siess Cothlin,	٠	•	•	٠	•	Ocheltree, Johnson.
Elmer Cothlin,	•	•		٠	•	Ocheltree, Johnson.
Emma L. Cothlin,					•	Ocheltree, Johnson.
John Francis Crowl,				•	•	Chino, California.
Clarence Allen Crowley, .	•					Council Grove, Morris.
Pearle Hoff Cunningham, .						Sedalia, Missouri.
Clarence Jefferson Davis, .						Manhattan, Riley.
Violet Day,						Manhattan, Riley.
Robert William DeArmond,						Lincoln, Lincoln.
Benjamin Walker Dial, .						Cleburne, Riley.
Alfred Burton Dille,						Edgerton, Johnson.
Mary Alberta Dille,						Edgerton, Johnson.
Cora B. Dilley,			_			Clyde, Cloud.
Dallas Daniel Dillon,						Downs, Osborne.
John Leo Donnelly,						Little River, Rice.
Harlan Henry Drake,	_					Beattie, Marshall.
Olive May Drake,			Ī	·		Manhattan, Riley.
Charles Madison Drown, .		Ī		·		Manhattan, Riley.
Elmer Alexander Drown, .	·	•				Grenada, Nemaha.
Harry Eugene Drown,		•	•	•	:	Grenada, Nemaha.
Walter Dimmick Duffy, .		·		:	:	Manhattan, Riley.
Benjamin Franklin Durant,	Ī		·		•	Riley, Riley.
Ida Dutcher,		•	•	•		Junction City, Geary.
George Crook Dye,	,	•	•	•	•	Niotaze, Chautaugua.
James Eagan,	•	•	•	•		Ridgeway, Osage.
Frank Gilbert Elliott,	•	•	•	•		New Lancaster, Miami.
Joseph Elliott,	•	•	•	٠	•	
William Henry Ellis,	•	•	•	•	•	New Lancaster, Miami.
Samuel Agnew England, .	•	•	•	•		New Lancaster, Miami.
Brownle Becker Faris,	•	•	•	•	•	Meriden, Jefferson.
Emma Frances Fengel, .	•	•	•	•	•	Kanopolis, Ellsworth.
Guy Owen Finegan,	•	•	•	•	٠	Woodbine, Dickinson.
Louis Julius A. Fink,	•	•	•	٠	•	Manhattan, Riley.
Herbert James Finley,	•	•			•	Hymer, Chase.
Etto Cropo Fisher	•	•		•	•	Manhattan, Riley.
Etta Crane Fisher,	•	•	•	•	•	Kinsley, Edwards.
Lillie Edith Fisher,	•	٠	•	•	•	Centralia, Nemaha.
Peter Fred. Fleming,	•	•	•	•	•	Paola, Miami.
Lucius Grant Folsom,	٠	•	•	•	•	Little River, Rice.
Lulu Mae Snodgrass Folsom	ì,	•	٠	•	•	Manhattan, Riley.
Harvey Foltz,	٠	•	•			
Myrtle Gertrude Foote,	•	•	•	•	•	Marion, Marion.
Lottie Blanche Forsythe, .	•	•	•	•	•	Dwight, Morris.
Frank W. Foster,	•	٠	•	•	•	Clifton, Clay.





STUDENTS JUDGING THE DAIRY CATTLE

						·
Name.						Post-office and County.
Florence Fox,						Manhattan, Riley.
James Kirker French,			•	•	•	Lakin, Kearny.
Ernest George Gaus,			•	•	•	McPherson, McPherson.
Lizzie Gentes,		•	•	•	•	Council Grove, Morris.
Thomas Jefferson Getz,			٠	•	•	Hope, Dickinson.
Alexander R. Gibbs ,		•		•		Hymer, Chase.
Fred. Gibbs,						Industry, Clay.
John Gibbs,		•	•	•	•	Hymer, Chase.
Nettie May Gilbert,			•			Manhattan, Riley.
James Addison Gillaspie,						Albia, Iowa.
Charles M. Ginter,						Valley Falls, Jefferson.
Thomas Michael Gleason,						Briggs, Geary.
Watt Glenn,						Block, Miami.
Albert Jack Goheen,						Manhattan, Riley.
Willis James Goode,						Lenexa, Johnson.
Cora Goodwin,						Neosho, Missouri.
Arthur H. Green,						Industry, Clay.
George McClung Green,						Manhattan, Riley.
Augustus Wellington Greenfie				•		Overbrook, Osage.
Frank Gregory,						Lyndon, Osage.
Francis Joseph Habiger,						Bushton, Rice.
Elizabeth Hall,					٠	Manhattan, Riley.
Frank Robbins Hall,				٠		Manhattan, Riley.
Charlotta Sophia Hammerbec	ĸ,		•	•		Monterey, Riley.
John George Haney,					•	Courtland, Republic.
			•		•	Guy, Sheridan.
Charles Bland Harling,		٠	•	•	•	Olsburg, Pottawatomie.
Homer K. Harness,		•	•	•	•	Beattie, Marshall.
John Andrew Harvey,				•	•	Junction City, (Riley).
Herbert Fiske Hatch,				•		Manhattan, Riley.
Harry Haub,						Whiting, Johnson.
Nellie Henderson,						Alma, Wabaunsee.
Will. B. Henson,						Paola, Miami.
Noah E. Hershey,						Donegal, Dickinson.
Seldon Lawrence Heskett, .						Hymer, Chase.
Lena Leota Hiatt,						Twin Mound, Douglas.
John Morris Hibner,						Riley, Riley.
Fred. W. Hildrup,						Grantville, Jefferson.
Grace Edna Hill,						Phillipsburg, Phillips.
Maurice Barney Hill,						Emporia, Lyon.
Stella Rex Hill,						McCracken, Rush.
Mollie Belle Hocker,				•		Beman, Morris.
Carl Holman,		•	•	•		Leavenworth, Leavenworth.
Hartley Bowen Holroyd,		•	•		:	Manhattan, Riley.
Hiram Adsit Holzer,						Girard, Crawford.
Tale Merrie Wooker		•	•	•	•	
Isla Marie Hooker,			•	•	•	Manhattan, Riley.
		•		٠	•	Manhattan, Riley.
John Frederic Howe,		•	•	٠	٠	•
Fred. Humphries,				٠	•	Williamstown, Jefferson.
William Morton Humphries,				•	•	Williamstown, Jefferson.
James Minor Hupp,		•	•	•	٠	Ridgeway, Osage.
•						

Name.					Post-office and County.
Thomas Ackley Hupp,					
Alexander Hutchison,					
Edgar Ingraham,					
William Mattheson Ireland, .				٠	Sterling, Rice.
Elmer Emory James,				•	<u> </u>
Frank Jamieson,				٠	Hoge, Leavenworth.
Bertha S. Johnson,				•	Laton, Rooks.
Charles W. Johnson,				•	Dwight, Morris.
Fred. Emanuel Johnson,				٠	Melvern, Osage.
Joseph Johnson,				٠	Kackley, Republic.
Harry Jones,				•	Topeka, Shawnee.
Daisy Judd,				٠	Irving, Marshall.
Margaret Laura Kay,					Clay Centre, Clay.
Lot Parker Keeler,				•	Centropolis, Franklin.
Christian Kenney,				٠	Manhattan, Rlley.
Will Dwight Klng,		٠			Lincoln, Lincoln.
Albert Thomas Klnsley,				•	Oakley, Logan.
Bernard Knecht,					Perry, Jefferson.
Evangeline Cleora Kneeland,					Milford, Geary.
Emma Bertha Landgraf,					Barnes, Washington.
William Adam Landgraf,					Barnes, Washington.
Edward Langhart,					Wheaton, Pottawatomie.
Frank Elmer La Shelle,					Chepstow, Washington.
Oscar Vincent Latto,					Enterprise, Dickinson.
George Whitfield Lawrence,					Manhattan, Riley.
Howard Irwin Lawrence,					Manhattan, Riley.
Christian Dagobert Lechner,					Morganville, Clay.
Arthur Moore Lee,					Manhattan, Riley.
John Albert Lee,					Polo, Oklahoma.
James Henry Lee,					Polo, Oklahoma.
Rosa Anna Lee,					Polo, Oklahoma.
Charles Henry Lehmkuhl, .				·	Muscotah, Atchison.
Olive Lewis,					Columbus, Ohio.
Chancey B. Little,					Olathe, Johnson.
Clarence Curtis Livingston, .					Abilene, Dickinson.
Clare Long,					Manhattan, Rlley.
John Alexander Lovette,					Crescent, Kiowa.
Albert Dawson Lowry,					Topeka, Shawnee.
Charles Irving McCaskey, .					Ft. Leavenworth, Leavenworth.
Harvey McCaslin,					Barnes, Washington.
Charlotte Elizabeth Macaulay,					
June Cargill McElroy,	•	•	•	•	
Alick Charles McGregor,					Harris, Anderson.
George Francis McKey,					Howard, Elk.
Lee McLaren,					Altoona, Wilson.
Adolph William Maas,					Alma, Wabaunsee.
Louisa Mary Maelzer,	•	•	٠	•	•
Edward Makins, jr.,					Abilene, Dickinson.
Amy Manchester,					•
George Webster Manchester,	•	•	•	•	Chiles, Miami.
Katie Anna Manly,	•	٠	٠	•	Council Grove, Morris.

Name.						Post-office and County.
Clark Mansfield, Lewis Marsh,	•	•	•			Junction City, Geary. Idana, Clay.
Fred. Howard Martin,	•	•	٠			•
Tre Conford Montin	•	•	•		٠	Junction City, (Riley).
Ira Sanford Martin,	٠	٠	•		•	Newton, Harvey.
George Martinson,	•	•	•	٠	•	Randolph, Riley.
Claud Masters,	•	٠	•	•	٠	Hillsdale, Miami.
August Centennial Miller,	•	•	٠	•	٠	De Soto, Johnson.
Margaret Jane Minis,					•	Manhattan, Riley.
Robert Bertice Mitchell, .	•	٠	•	•	•	Florence, Marion.
Charles Louis Moehlman,				•	•	Manhattan, Riley.
Delia Miriam Monroe,				•	•	Whiting, Jackson.
Daniel Estol Moore,		•	٠	•	•	Manhattan, Riley.
Fred. Byers Morlan,		٠		٠	•	White Rock, Republic.
Mettie Maud Moyer,		•	•	•	•	Athelstane, Clay.
Jennie June Needham,		•		•	٠	Lane, Franklin.
Charles William Nelson, .				•	٠	Michigan Valley, Osage.
George Edward Nelson, .			•			Kackley, Republic.
Robert Christian Nelson, .		•	•	•		Greenleaf, Washington.
William Nelson,						Barnes, Washington.
Harriet Josephine Newell,		•				Zeandale, Riley.
Roscoe Townley Nichols, .						Liberal, Seward.
Carl Christian Nielsen, .						Denmark, Lincoln.
Hans Peter Nielsen,						Denmark, Lincoln.
Fannie Gertrude Noyes, .						Wabaunsee, Wabaunsee.
Harry Delphos Orr,						Riley, Riley.
George Washington Owens,						Alma, Wabaunsee.
Kate Paddock,						Manhattan, Riley.
Carrie Vashti Painter,						Meade, Meade.
Tommy Wright Paschall,					٠,	
Carl Payne,						Cadmus, Linn.
James Ralph Payne,						Waterville, Marshall.
Edward Pearsall,						Yates Center, Woodson.
Fred. Pearsall,						Yates Center, Woodson.
Clara Jeanette Perry, .						Manhattan, Riley.
Anna C. Pfuetze,						Manhattan, Riley.
Arthur True Pickett,						Manhattan, Riley.
John Martin Pierce,						Genoa, Illinois.
May Louise Pierce,						Gença, Illinois.
Paul Duchaillu Piersol, .						Randolph, Jewell.
John Samuel Plum,					·	Baker, Brown.
Luther Eugene Potter, .						Rose, Woodson.
Andrew Pottorf,	•		•	•	•	Riley, Riley.
James Benton Pratt,	•	•	•	•	•	Syracuse, Hamilton.
Laura Ida Pritchard,	•			٠	٠	Manhattan, Riley.
Karl Vernon Pursell,	•	•	•	•	•	· · · · · · · · · · · · · · · · · · ·
Bartholomerr Ouesnor	•	•	•	•		Wagstaff, Miami.
Bartholomew Quesnoy, . Porter Hayse Rader,	•	•	-		•	Weir City, Cherokee.
Delmer William Randall,	•	•	•	•		Manhattan, Riley.
	•	•	•	•	•	Manhattan, Riley.
Mrs. Hannah Fletcher Rand	al.	ι,	•	•	•	mannattan, Kiley.
Abraham L. Ray,	•	•	•	•	•	winneid, Cowley.
Rosa Minnie Ray,	•	•	٠	٠	•.	Winfield, Cowley.

Name.							Post-office and County.
Nora May Reed, Joe Reyburn,	•	•	•	•			Genoa, Illinois.
Benjamin Louis Binnetes	•	•	•	•	•	• '	Leavenworth, Leavenworth.
Benjamin Louis Rippetoe,		•	•				Hoyt, Jackson.
Andrew Edward Robe, .	•	•	٠				Harris, Jackson.
Albert Robison,	•	•	•		٠		Yates Center, Woodson.
Fred. G. Robison, Sadie J. Robison,			•	٠			El Dorado, Butler.
			•			•	Yates Center, Woodson.
Harry Clark Rogers,	•	•	•	٠		•	Manhattan, Riley.
Ld Elmerta Royer,	•	•	•	٠	•		Sterling, Rice.
Ferdinand John Rumold, .	•	٠	٠			•	Dillon, Dickinson.
Alvira Salkeld,				•		•	Manhattan, Riley.
Alvirtis Cantford Salkeld,							Manhattan, Riley.
Charles Riley Sanford,						•	Milford, Geary.
Bernhard Hugo Schultze,					•	٠	Rexdorf, Germany.
Marcellus Grant Searcy, .			•		•	•	Cherry Vale, Montgomery.
Dora Shartell,	•	٠	٠	•	•	•	Wamego, Pottawatomie.
Willie Sheetz,		•	•	•	•	•	Allen, Lyon.
Frank Sessions Shelton, .		•		•	•	•	Brisbane, Queensland.
Claud Morton Shull,		•	٠	•		٠	Lansing, Leavenworth.
Emma Alvira Shull,					•		Manhattan, Riley.
Edward Willis Simpson, .		•	•		•		Great Bend, Barton.
Ed. S. Sittel,		•		•	•		McAlester, Indian Territory.
Anna Louisa Smith,		•		•		٠	Ottumwa, Coffey.
Jalmer J. Smith,		•					Scandia, Republic.
Birchard Franklin Snodgra	SS	,					Manhattan, Riley.
Milton David Snodgrass, .							Manhattan, Riley.
Herman Soupene,							Manhattan, Riley.
Grace Ermine Spalding, .	,						Eureka, Greenwood.
C. W. Spangler,							Mulhall, Oklahoma.
Otho W. Sparks,							Dunlap, Lyon.
Edward Lovette Stewart, .							Louisville, Pottawatomie.
Stella Stewart,							Manhattan, Riley.
Charles Edgar Stites,							McLouth, Jefferson.
Annie Louisa Streeter, .							Milford, Geary.
Emma Celinda Stryker, .							Wagstaff, Miami.
Myrtie Anna Stryker,							Wagstaff, Miami.
Leo Cornelius Studer,							North Topeka, Shawnee.
William Henry Swart,				• -			Manhattan, Riley.
Mary Rebecca Sweaney, .							Olsburg, Pottawatomie.
Fayette Charles Sweet, .							Burlington, Coffey.
Isabella Kent Symns,							Brenner, Doniphan.
Perrin K Symns,							Brenner, Doniphan.
Arthur C. Tannehill,							Wakefield, Clay.
Rose Jane Tannehill,					Ċ	Ĭ	Wakefield, Clay.
Jennie Ann Tappen,							Delphos, Ottawa.
Frank McDowell Taylor, .	•				•		Holton, Jackson.
Ruth Taylor,			:		:		Junction City, Geary.
Ernest Thoes,			:			•	Alma, Wabaunsee.
Leon Henry Thomas,		•		:		:	Oakley, Logan.
Thomas Ed. Thompson, .		•	•			•	Lincoln Center, Lincoln.
Kate Claire Threlkeld,		•	•			•	Gypsum City, Saline.
Orente Intervetti,		•	•	٠	٠.	. •	Gypaum City, pailme.

Name.	Post-office and County.
	. Gypsum City, Saline.
William Tieking,	. Myers Valley, Pottawatomie.
Emma Elizabeth Tilton,	. Detroit, Dickinson.
Ira Toothaker,	. Wheaton, Pottawatomie.
	. Manhattan, Riley.
Otho Sprague True,	. Vera, Wabaunsee.
Willie Guy Tulloss,	. Rantoul, Franklin.
	. La Junta, Colorado.
Harry Castle Turner,	. Rock Creek, Jefferson.
Frederick Sands Turtle,	. Studley, Sheridan.
Harvey L. V. Uhl,	. Gardner, Johnson.
	. Waterville, Marshall.
John Nicholas Selby Vermillion,	. Lebo, Coffey.
	. Oakley, Logan.
	. Manhattan, Riley.
Charley Fred. Wahl,	. Wheaton, Pottawatomie.
Fred. Walters,	. Manhattan, Riley.
Emma Rebecca Wandler,	. Junction City, Geary.
	. Junction City, Geary.
The second secon	. McPherson, McPherson.
Noah Pholo Way,	. Talmo, Republic.
Ella Weeks,	. Lincoln, Lincoln.
	. Aulne, Marion.
OH: OT THE	. Baileyville, Nemaha.
Edd Brady Whealey,	. Wellington, Sumner.
Carl Wheeler,	. Bridgeport, Saline.
Luella Hope White,	. Stockdale, Riley.
	. Manhattan, Riley.
Harry C. Williams,	. Edgerton, Johnson.
Nellie Mitchell Williams,	. Springside, Pottawatomie.
Theodore Windscheffel,	. Gaylord, Smith.
Frederick Otto Woestemeyer,	. Bethel, Wyandotte.
Myrle Wolfe,	. Little River, Rice.
Ida Phene Wolfley,	. Ontario, Jackson.
Mary Rowena Wolfley,	. Ontario, Jackson.
Perley Wolfley,	. Ontario, Jackson.
	. Clifton, Washington.
Dennie Woollen,	. Mankato, Jewell.
Ralph Edward Worden,	. Syracuse, Hamilton.
	. Oskaloosa, Jefferson.
True Wright,	. Barnes, Washington.
Vannora Wright,	. Graham, Texas.
William H. Young,	. Yates Center, Woodson.
.,	

SPECIAL STUDENTS.

Edward William Holler,				Manhattan, Riley.
Ada Ingman,				Barnes, Washington.
Raymond Haines Pond,				Topeka, Shawnee.

SUMMARY.

	Gentlemen.	Ladies.	Total.
Postgraduate	15	17 25	32
Fourth yearThird year	35	32	67
Second year	$\begin{array}{c} 72 \\ 249 \end{array}$	104	$\frac{121}{353}$
Special	2	1	3
Totals	419	228"	647

From 72 counties of Kansas, 612. From 17 other states, 35. Applicants not enrolled, 26.

RECORD OF ATTENDANCE, 1879-'96.

COLLEGE YEAR.	Spe-	First year.	Second year.	Third year.	Fourth year.	Post- gradu- ate.	Total.	Grad- uated.
1878-'79 1879-'80 † 1880-'81 * 1881-'82 1882-'83 1883-'84 1884-'85 1885-'86 1886-'87		90 167 184 232 245 257 274 274 312	89 61 48 50 60 92 71 91 96	16 35 24 19 30 26 36 35 44	12 11 9 11 12 18 16 24 24	2 2 2 2 5 4 7	207 276 267 312 347 395 402 428 485	9 7 8 9 12 17 14 21 21
1887-'88 1888-'89 † 1889-'90 1890-'91 † 1891-'92 1892-'93 1893-'94 1894-'95 1895-'96	5 3	305 266 307 343 336 339 275 276 353	92 103 105 135 139 110 141 108 121	46 41 63 50 62 66 72 89 67	27 28 28 53 37 43 42 64 71	2 7 11 12 10 29 25 30 32	472 445 514 593 – 584 587 555 572 647	22 25 27 52 35 39 40 57

^{*} Course strengthened. † Requirement for admittance raised.

History and Resources.

An act of Congress, approved July 2, 1862, gave to each state public lands to the amount of 30,000 acres for each of the senators and representatives in Congress according to the census of 1860, for the "endowment, support and maintenance of at least one college, where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, . . . in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Under this act, the state of Kansas received 82,313.53 acres of land, and, in 1863, established the State Agricultural College, by endowing with these lands Bluemont College, which had been erected two miles from Manhattan, under the auspices of the M. E. Church, but was presented to the state for the purpose named in the act of Congress.

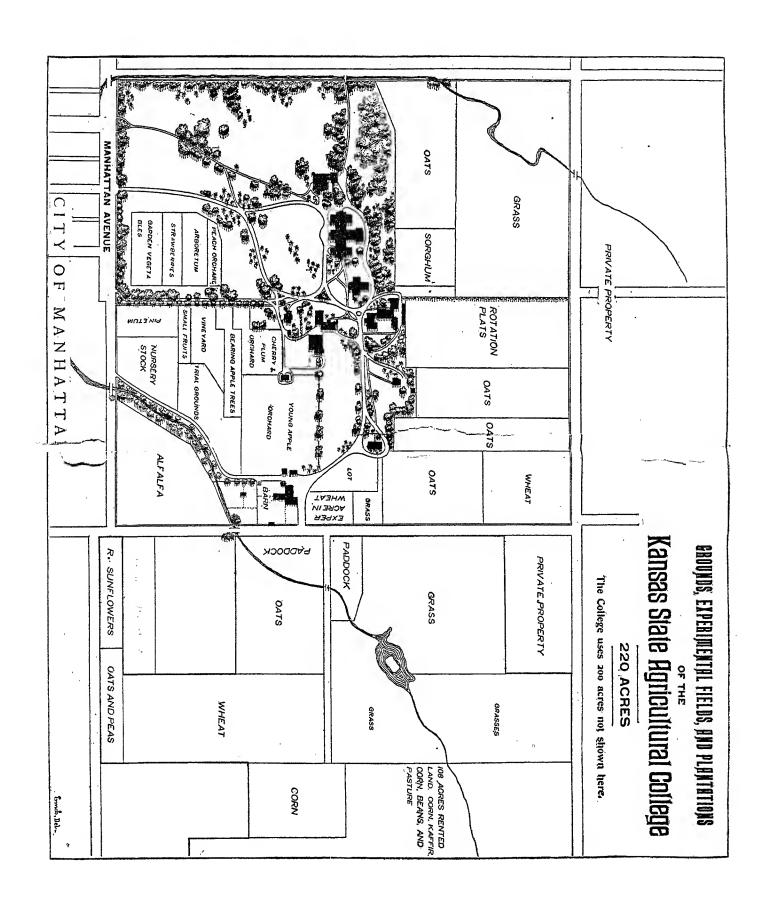
In 1873, the College was reorganized upon a thoroughly industrial basis, with prominence given to practical agriculture and related sciences; and in 1875 the furniture and apparatus of the College were moved to the farm of 219 acres, one mile from the city of Manhattan. On this fine location the state has provided buildings valued at \$210,000; of these a description is given elsewhere. The farm and grounds, furniture, stock, and other illustrative apparatus, are valued at \$175,000. The present value of buildings, grounds, apparatus, etc., is almost exactly equal to the sum of all appropriations by the state. Nearly all the lands have been sold, giving a fund of \$502,352.35, which is by law invested in bonds, the interest alone being used for the current expenses of the College.

The annual income from the endowment fund—about \$30,000— is supplemented by an appropriation under an act of Congress approved August 30, 1890, of \$15,000 for 1890, and a sum increasing each year by \$1,000 until the annual amount shall be \$25,000. This fund, now \$22,000, is "to be applied only to instruction in agriculture, the mechanic arts and the English language, and the various branches of mathematical, physical, natural and economic science, with special reference to their application in the industries of life, and to the

facilities for such instruction." "No portion of said moneys shall be applied, directly or indirectly, under any pretense whatever, to the purchase, erection, preservation or repair of any building or buildings."

All the expense of instruction is thus provided for, and the state is left to erect and maintain the necessary buildings and meet expenses in management of the funds.

Under an act of Congress approved March 7, 1887, the College receives, by annual appropriations in Congress, \$15,000 a year for the maintenance of an experiment station, "to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science." The property of the station, including a building erected especially for its use, amounts to more than \$10,500.



Grounds and Buildings.

The College grounds and buildings, occupying an elevation at the western limits of the city of Manhattan, and facing towards the city, are beautiful in location. The grounds include an irregular plat in the midst of a fine farm, with orchard, vineyard and sample gardens attached, the whole being surrounded by durable stone walls. The grounds are tastefully laid out and extensively planted, according to the design of a professional landscape gardener, while well-graveled drives and good walks lead to the various buildings. All of these are of the famed Manhattan limestone, of simple but neat styles of architecture, and admirably suited to their use. All recitation rooms are excellently lighted and ventilated, and all are heated by steam or hot water. A complete system of sewerage has been provided. The buildings staud as indicated in the plat accompanying the following description:

College, 152x250 feet in extreme dimensions, arranged in three distinct structures, with connecting corridors. This building contains, in its two stories and basement, offices, reception room, cloakrooms, studies, chapel, library, reading-room, kitchen laboratory and dairy, sewing room, printing office, and 14 class-rooms.

Chemical laboratory, one story, 26x90 and 46x75 feet of floor space, in form of a cross. It contains seven rooms, occupied by the department of chemistry and mineralogy.

Mechanics hall, 39x103 feet, two stories, and 40x80 feet, one story, occupied by wood and iron shops, finishing shop, class-room, and music rooms. A foundry, 32x42 feet, is attached.

A central steam plant furnishes heat and power to the buildings. Horticultural hall, 32x80 feet, one story and cellar, having cabinet room, class-room, and storage, with greenhouse attached.

Horticultural laboratory, with six propagating houses attached.

Armory and veterinary laboratory, 46x96 feet, two stories. This building, which has served many purposes, is now fitted for an armory and drill room below, and for class-room, laboratory and veterinary museum for the department of physiology and veterinary science above.

Library and agricultural science hall, 100x140 feet, three and four stories. This building provides permanent quarters for the library,

with ample reading-room; class-rooms, laboratories, and cabinet room for zoology, entomology, and botany; a class-room in history; and suitable rooms for the various College societies.

The farm barn is a double but connected stone structure, 50x75 feet and 48x96 feet, with an addition of sheds and experimental pens 40x50 feet. A basement, having stables for 75 head of cattle, silos, engine-room, and granaries, underlies the entire structure.

The horticultural barn is a stone building, containing storeroom, granary, and stables for several horses.

The foundries, lumber house, implement house, piggery and various outbuildings are of wood.

One stone dwelling, occupied by the Professor of Agriculture, and one frame dwelling, occupied by the foreman of the farm.

L!BRARY.

The library consists of 16,300 bound volumes and about 5,300 pamphlets, including 680 volumes belonging to the experiment station, and is valued at \$31,400. It has been selected mainly with a view to supplementing the class-room instruction in the various departments. All the books are indexed in a card catalogue, so that the resources of the library upon any subject may be readily learned. All students have free access to the bookshelves, and may draw the books for home use, under simple and most liberal regulations.

The College subscribes for the leading literary, scientific and agricultural journals; while the principal daily and weekly papers of Kansas, and many from other states, are received in exchange for the college publications. All these are kept on file for the use of students and Faculty.

The College has been designated as a depository of United States public documents for the fifth congressional district of Kansas, and 1,950 volumes have already been received on this account.

The library is open daily, except on legal holidays, from 8 a.m. to 5:30 p.m. The Librarian or the assistant is in constant attendance at these hours to assist those who use the books.

An approximate estimate of the number of books, including public reports and bound periodicals, by classes, is as follows:

Classes.	Tols.	Classes.	Vols.
Agriculture	2,130	Biology	100
Horticulture	510	Medical and veterinary science	340
Mechanics and engineering	470	Military science	85
Mathematics and astronomy	250	Domestic science	110
Physics and meteorology	275	Economic science	460
Chemistry and mineralogy	450	History and political science	1,405
Geology	290	Printing	55
Botany	752	Industrial art and design	160
Zoology and entomology	540	English language and literature	950

Thirty-third Annual Catalogue.

Classes.	Vols.	Classes,	Tols.
Logic and philosophy	175	Fiction	450
General science	660	Poetry	170
Geography and travels	230	Religion and morals	490
Dictionaries and cyclopedias	170	Fine arts	18
Education	330	Bound magazines	1,330
Law	175	Music	40
Administrative reports	340	History of industry	190
Public documents on deposit	1,950	Miscellaneous	100

Objects.

This College now accomplishes the objects of its endowment in several ways:

First, It gives a substantial education to men and women. Such general information and discipline of mind and character as help to make intelligent and useful citizens are offered in all its departments, while the students are kept in sympathy with the callings of the people.

Second, It teaches the sciences applied to the various industries of farm, shop, and home. Chemistry, botany, entomology, zoology and mechanics are made prominent means of education to quick observation and accurate judgment. Careful study of the minerals, plants and animals themselves illustrates and fixes the daily lessons. At the same time lessons in agriculture, horticulture, engineering and household economy show the application of science; and all are enforced by actual experiment.

Third, It trains in the elements of the arts themselves, and imparts such skill as to make the hands ready instruments of thoughtful brains. The drill of the shops, gardens, farm and household departments is made a part of the general education for usefulness, and insures a means of living to all who make good use of it. At the same time it preserves habits of industry and manual exertion, and cultivates a taste for rural and domestic pursuits.

Fourth, It strives to increase our experimental knowledge of agriculture and horticulture. The provision for extensive and accurate researches, made by establishing the Experiment Station as a distinct department of the College, offers assurance of more definite results than can be obtained by ordinary methods. The professors of agriculture, horticulture, chemistry, entomology, botany, and veterinary science, together with the President of the College, form the Experiment Station Council, by authority of which experiments are undertaken and carried on in the several departments, under the special supervision of the professors. These touch "the physiology of plants and animals; the diseases to which they are severally subject, with remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of

crops; the capacity of new plants or trees for acclimation; the analysis of soils and waters; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects ou crops of different kinds; the adaptation and value of grasses for forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable." The bulletins of the Station, issued at least as often as once in three months, and amounting to not less than 40,000 copies during the year, are sent, according to law, free of postage, to all newspapers in the state, and "to such individuals actually engaged in farming as may request the same, and as far as the means of the Station will permit." Correspondence with reference to bulletins and experiments is welcomed, and may be addressed to the several members of the Council.

Fifth, It seeks to extend the influence of knowledge in practical affairs beyond the College itself. For this purpose, farmers' institutes have been organized in about 60 counties of the state, in which from two to four members of the Faculty share with the people in lectures, essays and discussions upon topics of most interest to farmers and their families. These institutes, held for the past 15 years, have brought the College into direct sympathy with the people and their work, so as to make possible a general dissemination of the truths presented. Members of the Faculty are also prominently connected with state associations for the promotion of agriculture, horticulture, the natural sciences, and education in general. Correspondence as to farmers' institutes or any questions of practical interest in agriculture or related sciences is desired.

The "Industrialist," published weekly, and edited by Faculty and students, gives a wide circulation to matters of interest in the College.

Methods.

The necessity for so adjusting various branches of a course of study that there shall be as little waste as possible in acquiring both information and discipline, is felt by every teacher. Such a course is not designed to be absolutely inflexible, but to guide the judgment into some definite line of progress from which no mere whim shall turn a student aside. Students in irregular courses are expected to take the equivalent for the required duties of the term; variations from this rule can be made only with the consent of the Faculty.

Parallel courses are offered to both sexes, with such differences as their necessities seem to call for. The following gives the general scope of the two, but fuller explanations are found under "Outline of Instruction":

Course of Study.

[Numerals denote number of class hours per week. When no work outside of class is required, italics are used.]

First Year.

```
Fall Term....Algebra, 5.
    14 weeks.
               English Analysis, 5.
               Botany, 5.
               Free-hand Drawing, 3.
               Rhetoricals, 1.
                   Industrial, 5.
                   Military Drill, 4.
Winter Term.. Algebra, 5.
    13 weeks.
               English Composition, 5.
               Bookkeeping, one-half term, 5. Commercial Law, 1.
               Geometrical Drawing, one-half term, 5.
               Rhetoricals, 1.
                   Industrial, 5.
                   Military Drill, 3.
Spring Term.. Algebra, 5.
    11 weeks.
               English Structure, 5.
               Elementary Physics, 5.
               Rhetoricals, 1.
                   Industrial, 5.
                   Military Drill, 5.
                                  Second Year.
Fall Term....Geometry, 5.
   14 weeks.
               Horticulture, 5.
               Inorganic Chemistry, 5. Laboratory work, 2.
               Rhetoricals, 1.
                   Industrial, 5.
                   Military Drill, 4.
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Winter Term..Geometry, one-half term, 5.

12 weeks. Projection Drawing, one-half term, 5.

Agriculture, for young men, 5.

Household Economy, for young women, 5.

Organic Chemistry, one-half term, 5.

Mineralogy, one-half term, 5. Laboratory work, 5.

Military Science, one-half term, 2.

Rhetoricals, 1.

Industrial, 5.

Military Drill, 3.

Spring Term..Descriptive Geometry, 5.

11 weeks. Entomology, 5.

Analytical Chemistry, 10.

Military Science, 2.

Rhetoricals, 1.

Industrial, 5.

Military Drill, 5.

Third Year.

Fall Term.... Trigonometry and Surveying, 5. Surveying Practice, 2.

14 weeks. General History, 5.

Anatomy and Physiology, 10 weeks, 5.

Chemistry of Foods, four weeks, 5.

Rhetoricals, 1.

Industrial, 5.

Military Drill, optional.

Winter Term.. Mechanics, 5.

13 weeks.

Civics, 5.

Zoology, 5.

Map Drawing, about 30 hours a term.

Rhetoricals, 1.

Industrial, 5.

Military Drill, optional.

Spring Term.. Economic Science, 5.

11 weeks.

Rhetoric, 5.

Agricultural Chemistry, 5.

Perspective and Sketching, 4.

Rhetoricals, 1.

Industrial, 5.

Military Drill, optional.

Fourth Year.

Fall Term....Physics and Meteorology, 5.

14 weeks. Engl

English Literature, 5.

Agriculture, for young men, 5.

Hygiene, for young women, 5.

Object Drawing, 4.

hetoricals, 1.

Industrial, 5.

Military Drill, optional.

Winter Term.. Physics, one-half term, 5.

12 weeks. History of Industry and Science, one-half term, 5.
Psychology, 5.
Botany, 5.
Veterinary Science, for young men, 5.
Floriculture, for young women, 5.
Rhetoricals, 1.
Industrial, 5.
Military Drill, optional.

Spring Term.. Geology, 5.

Spring Term..Geology, 5.

11 weeks. Logic, 5.
Engineering, for young men, 5.
Literature, for young women, 5.
Rhetoricals, 1.
Industrial, 5.
Military Drill, optional.

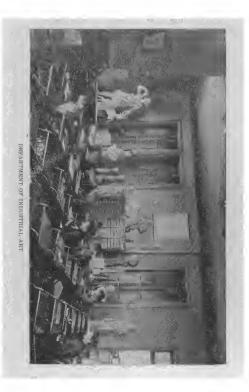
Students desiring additional training in special lines of study are recommended to extend the course one year. During the fourth year they will then be permitted to choose one elective and during the fifth year two electives, in place of required studies.

Electives in Extended Course.

[A number of the studies named below must be preceded by certain other studies. Consult the index to find the fuller information given under "Outline of Instruction."]

Fall Term....Irrigation and Drainage, 2. Reference reading on feeding. 14 weeks. Fruit Culture, 5. Origin of Cultivated Fruits and Vegetables, 5. Vegetable Morphology and Ecology, 3. Vegetable Physiology, 2. German Botany, 2. General Entomology, 5. Systematic Entomology, 5. Animal Morphology, 5. Systematic Zoology, 5. Contagious and Infectious Diseases of Animals, 5. General Review of Human Anatomy, 5. Advanced Inorganic Chemistry, 5. Quantitative Chemical Analysis, 5. Materials of Engineering, 5. . Applied Mechanics, 5. Physics, 5. Analytical Geometry, 5. Heating, Ventilation, and Drainage, 5. History of the Nineteenth Century, 5. Socialism and Social Reforms, 5. Taxation, Tariff, Railway Transportation, 5. Hygiene, 5.

Foods for the Sick, 5.





SURTEYING SQUADS.-IRON AND WOODWORK SHOPS.



Winter Term.. Dairy Breeds and Dairying, 5.

12 weeks.

Forestry, 5.

Greenhouse Construction and Management, 5.

Cryptogamic Botany, 5. German Botany, 5.

General Entomology, continued, 5.

Systematic Entomology, continued, 5.

Animal Morphology, continued. Development, 5.

Systematic Zoology, special, 5.

Theory and Practice of Veterinary Medicine, 5.

Advanced Human Physiology, 5.

Advanced Inorganic Chemistry, continued, 5.

Quantitative Chemical Analysis, 5.

Physics, 5.

Machine Design and Hydraulics, 5.

Differential Calculus, 5.

Descriptive Geometry of Double-curved and Warped Surfaces, 5.

Graphic Statics, 5.

Comparative Politics, 5.

Money, 5.

Distribution, 5.

Bread, Meats, Salads, 5.

Spring Term..Grain and Forage Crops, 5.

11 weeks.

Maintaining Soil Fertility, 2.

Vegetable Gardening, 5.

Ornamental Gardening, 5.

Systematic Botary, 3.

Economic Botany, 2.

German Botany, 2.

Entomological Methods, 5.

Economic Entomology, 5.

Zoological Distribution and Evolution, 5.

Comparative Anatomy and Physiology, 5.

Veterinary Materia Medica, and Surgery, 5.

Organic Chemistry, 5.

Quantitative Chemical Analysis, 5.

Physics, 5.

Steam-Engine Design, 5.

Measurement of Power. Laboratory Practice, 5.

Integral Calculus, 5.

Historic Ornament, 5.

Architectural Composition, 5.

Constitutional Law, 5.

Banking, 5.

Principles of Sociology, 5.

General Cooking, 5.

Cake, Pastry, Dessert, 5.

INDUSTRIAL TRAINING.

Closely adjusted to the course of study is industrial training in several of the arts, to which each student is required to devote at least one hour a day. Among the lines of training, each student may select, with the approval of the Faculty, except in terms when special industries are required. Young men may have farming, gardening, and fruit-growing, woodwork and ironwork, or printing. Young women may take cooking, sewing, printing, floriculture, or music. The training in these departments is designed to be systematic and complete in each, so that a student following a single line diligently through the four-years course gains the essentials of a trade and a reasonable degree of skill. Those who wish only a general training in the arts can take shorter courses in several of them.

All young men must have their industrials for one term in the carpenter shop before completing the first year; and during the spring term of the second, and the fall term of the third year, upon the farm, garden, and orchards. Young women take their industrial for one term of the first year in sewing, and for the winter and spring terms of the second year in the kitchen laboratory and dairy.

POST-GRADUATE COURSES.

Arrangements can be made for advanced study in the several departments at any time, and outlines of courses will be furnished on application. The electives of the "Extended Course" are open to graduates, and special opportunities will be given for investigation and research. Every facility for advancement in the several arts taught at the College will be afforded such students, though they are not required to pursue industrial training while in these courses.

DEGREES.

The degree of Bachelor of Science is conferred upon students who complete the full course of four years and sustain all the examinations. This degree entitles the holder to credit for studies pursued in any application for state teacher's certificate. (See Laws of 1893.)

Students who extend the course one full year will receive mention on the diploma of special proficiency in those lines of study which they have pursued as an elective for not less than three terms.

The degree of Master of Science is conferred in course upon graduates who comply with the following conditions:

1. Upon candidates resident at least one year, the degree may be conferred at the end of a two-years course; upon non-resident candidates, the degree may be conferred at the end of a three-years course upon candidates who have taken the "Extended Course," it may be

conferred at the end of a one-year post-graduate course. These courses must be outlined by, or be acceptable to, the Faculty.

2. Each candidate shall furnish evidence satisfactory to the Faculty of proficiency in at least one of each of the groups of arts and sciences here named:

ARTS. SCIENCES.

Agriculture. Botany.

Horticulture. Chemistry.

Engineering. Zoology.

Architecture and Designing. Entomology.

Domestic Economy. Physics.

If higher mathematics or economic science be taken as a third minor study, due credit will be given in estimating proficiency.

- 3. Each candidate must present for consideration by the Faculty a satisfactory thesis, involving original research in line with one or the other of the courses pursued above, and shall deposit a perfect copy in the College library.
- 4. Application to the Faculty for sanction of the lines of study and research should be made as early as the 1st day of November.
- 5. The subject of the thesis must be settled upon as soon as the 1st day of January preceding the commencement at which the degree is expected.

In a resident post-graduate course of study, as provided for by rule 1, the work required shall be the equivalent of that necessary to pursue three full studies, the time in the aggregate to be divided approximately into three equivalents, two to the major and one to the minor study.

Outlines of direction for study and research in various arts and sciences, with special adaptation to the wants and opportunities of individual applicants, will be furnished, at request, to all graduates; and professors in charge will gladly aid by correspondence in any researches undertaken.

The degree of Master of Science may be conferred upon the graduates of other colleges of like grade with our own, provided the applicant shall first satisfy the Faculty of his proficiency in the industrial studies distinctive of this institution, on the following conditions:

- 1. The applicant for the master's degree must be a graduate of at least three years' standing, and a resident of Kansas.
- 2. His post-graduate study shall have been in line with that required of graduates of this College, as published in our catalogue.
- 3. He must make application for the degree on or before the 1st day of January preceding the granting of the same. The application must be accompanied with a statement of his course of study, the

work upon which the claim for the degree is based, and the subject selected for his thesis.

- 4. By April 1, an abstract of the thesis must be submitted to the Faculty.
- 5. Before May 15, the applicant shall present himself for examination. The examination shall be thorough and extensive, and shall be conducted by a special committee of the Faculty.

SPECIAL COURSES.

Persons of suitable age or advancement, who desire to pursue such branches of study as are most directly related to agriculture or other industries, may select such studies under the advice of the Faculty.

CLASS HOURS -- 1896-'97.

(Tuesday to Saturday. Monday Free.)

	HOUR.	FIRST YEAR.					
WINTER TERM-12 WEEKS, FALL TERM-14 WEEKS,	8:00	Military Drill. Calisthenies.					
	8:45	Chapel Exercises,					
	9:00	Botany.	Rhetoricals. Free-hand Draw'g.	English Analysis.	Algebra, I.		
	9:50	English Analysis.	Industrials.	Bookkeeping. Geom. Drawing.	Geom. Drawing. Bookkeeping.		
	10:40	Algebra.	English Analysis.	Industrials.	Rhetoricals. Free-hand Draw'g.		
	11:30	Rhetoricals. Free-hand Draw'g.	Botany.	Algebra, I.	Industrials.		
	12:20	Industrials.	Algebra, I.	Rhetoricals. Free-hand Draw'g.	English Aualysis.		
	1:40	Ironwork, Farm, Garden, Singing Classes.					
	8:30	Chapel Exercises.					
	8:50	Algebra, II.	English Structure.	English Compositiou.	Industrials.		
	9;40	Bookkeeping. Geom. Drawing.	Geom. Drawing. Bookkeeping.	Industrials.	Elementary Physics.		
	10:30	English Composition.	Industrials.	Elementary Physies.	Algebra, II.		
	11:20	Industrials.	Algebra, II.	Rhetoricals. Commercial Law. Tactics. Drill.	Rhetoricals. Commercial Law. Tactics. Drill.		
	12:10	Rhetoricals. Commercial Law. Drill. Tactics.	Rhetoricals. Commercial Law. Drill. Taeties.	Algebra, II.	English Composition.		
	1:30,	Ironwork, Singing Classes.					
S.	8:00	Military Drill. Calisthenies.					
	8:45	Chapel Exercises.					
WEEF	9:00	Algebra, III.	Industrials.	English Structure.	Botany.		
SPRING TERM-11 WEEKS.	9:50	Elementary Physies.	Algebra, III.	Industrials.	English Structure.		
	10:40	English Structure.	Elementary Physics.	Algebra, III.	Industrials.		
	11:30	Industrials.	English Composition.	Botany.	Algebra, III.		
	12:20	Rhetoricals.	Rhetoricals.	Rhetoricals.	Rhetorieals.		
	1:40	Ironwork, Farm, Garden, Singing Classes.					

CLASS HOURS-1896='97.

(Tuesday to Saturday. Monday Free.)

=	HOUR.	SECOND YEAR.				
FALL TERM 14 Weeks.	8:00	Military Drill. Calisthenics.				
	8:45	Chapel Exercises.				
	9:00	Geometry.	Horticulture.	Industrials.	Entomology.	
	9:50	Horticulture.	Geometry.	Chemical Practice. Rhetoricals.	Cliemistry.	
	10:40		Iudustrials.	Chemistry.	Chemical Practice. Rhetoricals.	
	11:30	Chemical Practice. Rhetoricals.	Chemistry.	Entomology.	Algebra, III.	
	12:10	Chemistry.	Chemical Practice. Geometry.		Industrials.	
	1:40	Ironwork, Farm, Garden, Singing Classes.				
WINTER TERM 12 Weeks.	8:30	Chapel Exercises.				
	8:50	Agriculture.	Geometry. Drawing.	Household Economy.		
	9:40	Organic Chemistry. Blowpipe.	Agriculture.	Blowpipe. Organic Chemistry.	Geometry.	
	10:30	Geometry. Drawing.	Blowpipe. Organic Chemistry.	Drawing. Geometry.	Organic Chemistry. Blowpipe.	
	11:20	Rhetoricals. Drill. Military Science.	Rhetoricals. Drill. Military Science.	Mineralogy, 6 wks. Cooking.	Cooking. Mineralogy, 6 wks.	
	12:10	Cookiug. Mineralogy, 6 wks.	Mineralogy, 6 wks. Cooking.	eralogy, 6 wks. Rhetoricals. Military Science. Drill.		
	1:30	Mineralogy, 6 wks. Military Science. Military Science. Military Science. Rhetoricals. Industrials for Young Men, Singing Classes.				
	8:00	Military Drill. Calisthenics.				
SPRING TERM-11 Weeks.	8:45	Chapel Exercises.				
	9:00	Des. Geometry.	Entomology.	Analytical Chemistry.		
	9:50	Horticulture.	Des. Geometry.			
	10:40	Rhetoricals.	Rhetoricals. Dairy.	Horticulture.	Geometry.	
	11:30	Analytical Chemistry.		Des. Geometry.	Entomology.	
	12:20			Rhetoricals.	Rhetoricals. Dairy.	
	1:40	Farm and Garden, Singing Classes.				

CLASS HOURS - 1896-'97.

(Tuesday to Saturday. Monday Free.)

	(Tues	sday to Saturday. A	1onday Free.)	
HOUR.	R. THIRD YEAR.		' FOURTH YEAR.	
8:00	Drill, optional.		Drill, optional.	
8:45	Chapel Exercises.		Chapel Exercises.	
9:00	Chem. of Foods. Des. Geometry.	General History.	Agriculture.	Hygiene.
9:50	General History.	Trigonometry and Surveying.	English Literature.	Physics.
10:40	Trigonometry and Surveying.	Des. Geometry. Chem. of Foods.	Physics.	Rhetoricals. Drawing.
11:30	Rhetoricals. Surveying Practice.	Industrials.	Rhetoricals. Drawing.	English Literature.
12:20	Industrials.	Rhetoricals. Surveying Practice.		
1:40	Farm and Garden.		Industrials, two days.	
8:30	Chapel Exercises.		Chapel Exercises.	
8:50	Zoology.	Mechanics.	Psychology.	
9:40	Drill, optional. Industrials.	Civics.	Veterinary Science.	Florticulture.
10:30	Civies.	Zoology.	Botany, A.	Botany, B.
11:20	Mechanics.	Rhetoricals. Map Drawing.	Botany, A. Rhetoricals.	Rhetoricals. Botany, B.
12:10	Rhetoricals. Map Drawing.	Drill, optional. Industrials.	Physics. Hist. Industries.	Hist. Industries. Physics.
1:30	Industrials for Young Mcn.		Botany, two days, Industrials, two days.	
8:00	Drill, Calisthenics, optional.		Drill, Calisthenics, optional.	
8:45	Chapel Exercises.		Chapel Excreises.	
9:00	Rhetoricals. Pers. Drawing.	Economic Science.	Engineering.	Literature.
9:50	Economic Science.	Rhetoric.	Logic.	Geology.
10:40	Rhetoric.	Agricultural Chemistry.	Geology.	Logic.
11:30	Agricultural Chemistry.	Rhetoricals. Pers. Drawing.	Rhetoricals.	Rhetoricals.
12:20	Rhctoricals. Pers. Drawing.	Industrials.		W
1:40	Industrials for Young Men.		Indus	trials.
	8:00 8:45 9:00 9:50 10:40 11:30 12:20 1:40 8:30 8:50 9:40 10:30 11:20 1:30 8:00 8:45 9:00 9:50 10:40 11:30	## British	BOUR. Brill, optional.	BOUR. THIRD YEAR. FOURTH

Outline of Instruction.

Agriculture.

Second Year, Winter Term.—History of agriculture, showing the successive steps by which the art has attained its present position. History and characteristic of breeds: Their adaptation to the varying conditions of soil, climate, and situation; study of the forms of animals, as shown by the different breeds belonging to the College; the relation of stock raising to general farming. Cultivation of hoed crops; management of corn and roots with reference to stock feeding, and the growth of the finer grains. The growth of the tame grasses in Kansas: The best sorts for the state, and their management, as shown by experience upon the College farm and elsewhere. Implements of simple tillage: Mechanical principles involved in their construction. Application of labor. Draught: Different adjustments as affecting draught. Plows for soil and subsoil. Drainage: Soils that need drainage; how to lay out a system of drains.

Fourth Year, Fall Term.—General principles governing the development of domestic animals: The laws of heredity—of normal, abnormal and acquired characters; atavism; correlation in the development of parts; in and in breeding and crossbreeding; influences affecting fecundity. The selection and arrangement of the farm with reference to the system to be pursued. Rotation of crops: General advantages of a rotation; the best rotation for the distribution of labor, production of manure, and extermination of weeds. Planning farm buildings—barns, piggeries, and stables. Manure: How best saved and applied; composting; commercial fertilizers. Agricultural experiments; field and feeding experiments. Stock feeding and meat production: Compounding rations, stall feeding. Soiling.

Extended Course.—Fall Term.—Elective work may be taken two hours a week in Irrigation and Drainage, with reference reading on these subjects and on feeding.

Winter Term.—Elective work is offered in Dairying, comprising a review of dairy breeds, management of dairy cattle and milk production, and the manufacture of butter and cheese. Recitations, five hours a week.

Spring Term.—Elective work is offered as follows: (1) Lectures and recitations, five hours weekly, on grain crops and forage crops,





AGRICULTURAL HALL AND GREENHOUSE.

with reference reading on these subjects. (2) Lectures and recitations, two hours weekly, on maintaining soil fertility and the application of manures, and reference reading on these subjects; but this subject must be preceded by the required agriculture, agricultural chemistry, and vegetable physiology.

Farm Work.—The young men are required to work on the farm five hours a week during half of the spring term of the second year, and half of the fall term of the third year, in all representing 60 hours' required work, for which they are remunerated according to their efficiency, the maximum rate of pay being 10 cents an hour. No pay is given when the work is designed solely for the instruction of the students. This required work is, for the most part, connected with the various field experiments under way on the farm, and is planued with a view to familiarize the student as far as possible with these experiments and methods of working. Aside from this required work, students are allowed to work on the farm at all times when help is needed, the maximum remuneration during term time being 10 cents an hour, and during vacation, 12½ cents, and so fully do they avail themselves of this privilege that all the work on the farm is done by students. The whole farm is under experiment, and those obtaining work there have opportunity to learn the nature and results of these experiments. They also aid in cariug for the various breeds of cattle, sheep and hogs kept on the farm. Students of marked ability in agriculture are often employed as foremen, for which service they are paid 15 cents an hour.

Means of Illustration.—Two hundred and eighty acres of land used for farm purposes, with hundreds of plats under experiment in grain, grasses, and forage crops; and illustrating various methods of culture and rotation.

A barn 50x75 feet, expressly arranged for experimental uses; and connected with it a general-purpose barn, 48x96 feet, for grain, hay, horses, and cattle. Both buildings are of stone, and are provided with an electric motor, run by the central heating plant of the institution. The barn is equipped with improved machinery for shelling, grinding, thrashing, cutting for the silo.

Two piggeries—oue of 10 pens, for experimental uses, and one of 6 pens, with separate yards, for general purposes.

An implement house 22x50 feet, of two stories, and corncribs.

Shorthorn, Aberdeen-Angus, Hereford, Holstein-Friesian and Jersey cattle; Berkshire and Poland-China swine; and Shropshire sheep.

Farm implements of improved patterns.

Collections of grains, grasses, and forage plants.

Buildings, stock and equipments are valued at \$27,000.

Horticulture.

Second Year, Fall Term.—It is the aim to teach this art from a botanical basis. The student applies his knowledge of the prime facts in botanical physiology to the various operations of the nursery, orchard, and farm. Instruction is given by a series of lectures upon the following topics, among others: The scope of horticulture. General principles of propagation—by buds, by seeds. Production of improved varieties—by careful selection of seeds, by interfertilization of known kinds. Perpetuation of valuable sorts of fruits by bud propagation—budding, grafting, layering, etc. The important points in nursery manipulation. The orchard: Conditions of site, soil, exposure, elevation; special treatment of different kinds of fruit trees; pruuing; gathering and storing fruits. Smallfruit culture: List of varieties suitable for Kansas planting. Vegetable garden: Selection and preservation of seed; planting and transplanting; the management and use of hotbed and cold-frame. Two weeks of the term are devoted to class-room practice in the making of cuttings and apple grafts.

Floriculture.—In the winter term of the fourth year the young women study floriculture, the subject including general greenhouse management; the treatment of plants in window gardening, the growing of flowering plants in the open air, the destruction of plant pests, etc.; practice in the plant houses alternating with lectures on these topics.

Extended Course—Fruit Culture.—Fall term. This course includes a study of the leading orchard and small fruits and grapes adapted to culture in the West; a discussion of the best methods of planting, pruning, and training, followed by a study of the distinctive characters of varieties; merits for home use and for market; keeping qualities; best methods of gathering, handling, storing, and marketing. Lectures.

Forestry.—Winter term. A study of the native trees of Kansas and adjacent states will be made, with special reference to their distribution and adaptation to variations of soil and climate, also of the native and introduced species best adapted to use in forest plantations and shelter belts; selection and arrangement of varieties in plantations; raising of seedlings; planting, culture and management of trees for timber and for wind-breaks; commercial timbers of the United States. Lectures.

Vegetable Gardening.—Spring term. The subjects treated are soil, location and preparation of ground for garden; use of glass structures in raising vegetables and plants; special methods of planting and culture of the leading vegetable crops for market and for

home use; varieties best adapted to Kansas culture; garden irrigation. Lectures.

Horticulture.—Fall term. A topical study is made of the more important cultivated fruits and vegetables, as to their origin, introduction, and improvement by culture, selection, and hybridizing. This work is intended to be done largely in the library, the student's researches being directed and advised by the professor in charge.

Greenhouse Construction and Management.—Winter term. The student will devote this term to the study of the principles of construction and heating of the various glass structures used in horticulture. The handbook of Professor Taft on "Greenhouse Construction" will be used as a basis of this work, supplemented by a study of the greenhouses and propagating pits on the grounds.

Ornamental Gardening.—Spring term. Two lectures each week on the ornamental plants, shrubs and trees most valuable for use in Kansas; some elementary principles of landscape planting; planning of home grounds; location and construction of walks and drives; grouping of trees and shrubs—these lectures to be supplemented by three days' work of the student in the College greenhouses, gardens, and grounds, becoming familiar with the large collections of plants and trees to be found there, and in the library, in the study of their botanical and cultural history.

Horticultural Work.—Young men are required to take this industrial during half of the spring term of the second year, and half of the fall term of the third year. Here students are given practical instruction in the planting and arrangement of nursery stock, digging and planting of trees, pruning and training of trees and vines, transplanting and management of small fruits, use of hotbeds and cold-frames, and general vegetable gardening. Special students during the winter term receive more advanced instruction in the various methods of propagation, in grafting room and greenhouses. Students who show special proficiency in horticulture are often employed as foremen. Work done in this department is paid for at the same rate and is governed by the same rules as in the farm department.

Means of Illustration.—Orchards containing 100 varieties of apples, 30 of peaches, 10 of pears, 20 of plums, 30 of cherries, and 5 of apricots.

Small-fruit garden, with 200 varieties of small fruits, including blackberries, raspberries, gooseberries, currants, and strawberries; and vineyard, with 160 varieties of grapes.

Forest plantation of 12 acres, containing 20 varieties, of from 1 to 25 years' growth.

Ornamental grounds set with a variety of evergreens and deciduous trees. Sample rows, containing about 150 varieties of ornamental and useful shrubs and trees, labeled.

Vegetable garden with hotbeds and cold-frames, and experimental beds. Practice row for students' budding, grafting, cultivating, and pruning.

Awell-planned and furnished greenhouse of three rooms, stocked with a fine collection of native and exotic plants; three propagating pits, 12x70 feet, for experimental work, and three others of the same size with commodious workroom adjoining, and equipped with the best improvements for the use of the young women in the practice of floriculture.

A tool room containing 50 individual cases of horticultural tools, besides tools and implements for general use, and pumps and apparatus for spraying with fungicides and insecticides.

Museum, containing a collection of woods from American forests, seeds of many varieties of vegetables, and a herbarium of cultivated grapes.

Value of property, exclusive of orchards and grounds, \$17,000.

Botany.

Elementary Botany.—Instruction in this branch is given during the fall term of the first year. The text-book used is Bergen's Elements of Botany. This is supplemented by daily field work which in the main runs parallel with the text-book. The aim in the field work is to teach the student how to observe, and how to draw conclusions from his observations. The following are a few of the subjects studied: Germination of corn, bean or other common seed; opening of buds; falling of leaves; various fruits and their adaptations for dissemination; pollination and adaptations for cross fertilization. These notes and observations, together with the necessary drawings, are submitted from time to time for examination and criticism. In addition to this, each student prepares a herbarium of not less than 50 species of native plants. These are named by the aid of Gray's Manual of Botany, sixth edition, or by a key to the genera of Manhattan plants, prepared by the Professor of Botany. The students are required to provide themselves with a pocket lens, under the direction of the professor in charge.

Advanced Botany.—In the winter term of the fourth year, the minute structure of plants is studied in the laboratory by the aid of the compound microscope. This includes an examination of

the vegetable cell and of various tissues and tissue systems, and of the cell contents, such as protoplasm, chlorophyl, starch, crystals, etc. A few types of cryptogamic plants are studied, but the chief part of this is necessarily left till later.

Each student has the use of a compound microscope, with the necessary tools and reagents. The laboratory manual used is Thomas and Dudley's Manual of Plant Histology. Instruction is given by lectures. Each student is required to prepare a herbarium of not less than 25 species of twigs. These are named by the aid of a pamphlet prepared by the Professor of Botany. A good herbarium and a large greenhouse are drawn upon for material for study.

Extended Course—Morphology and Ecology.—Fall term, three days per week. The former includes a study of the organs of plants, their modifications to perform various functions, and a comparison of these organs in plants of various degrees of development. The latter is that part of vegetable physiology which treats of plants as organisms, and would include such topics as germination, pollination, insectivorous plants, symbiosis, adaptation to climate.

Systematic Botany.—Spring term, three days per week. A study is made of the natural orders of phenogamous plants, their characters and relationships.

Vegetable Physiology.—Fall term, two days per week. This deals with the chemical and physical problems presented in living plants, such as the absorption of food, elaboration of organic material, transfer of food, action of light. This course should be preceded by the required physics, the advanced inorganic chemistry of the fall term, and the required fourth-year botany.

Cryptogamic Botany.—Winter term. During this term the principal types of fungi, algae, mosses and ferns are studied. This course should be preceded by the required botany of the fourth year and the first term of the advanced zoology.

Economic Botany.—Spring term, two days per week. A study of the economic products of the vegetable kingdom, their origin, history, and uses. This should be preceded by forestry and systematic botany.

Those who do not wish mention of special proficiency in botany may be admitted to the courses without the requirements in chemistry, physics, zoology, and horticulture.

In addition to the above, a course is offered in *German Botany*. It extends through the year: two days per week in the fall term (devoted to the elements of German grammar), five days per week in the winter term, and two days per week in the spring term.

The aim of the course is to enable students to read German botanical works.

Means of Illustration.—A general herbarium, consisting of a large collection of plants of the United States and other countries; a Kansas herbarium, containing specimens illustrating the distribution and variation of plants throughout the state; a twig herbarium, illustrating woody plants in their winter condition; and a seed herbarium, containing a representative collection of seeds and fruits; also 28 compound microscopes, four dissecting microscopes, tools, reagents, etc. The department is provided with a zinc culture room, and the ordinary apparatus for bacteriological work; a dark room and apparatus for photography; microtomes and other apparatus for microtomic work. Valued at \$7,500.

Zoölogy and Entomology.

Entomology.—Spring term, second year. In the elementary work of the second year, the intention is to give the student a basis for intelligent appreciation of the important relations of the science to agriculture and horticulture. A brief view of structural types precedes an outline of insect classification, and a special study of the economic bearing of the subject completes the work. Illustrative material is furnished from the individual collections of the students and from the College museum. Charts and drawings from nature are used to illustrate points of value in classification. The pocket lens used in botany is required in this study. Text-book, Comstock's Manual for the Study of Insects.

Extended Course.—The student electing entomology in his fourth year reviews through the fall and winter terms the general subject as a necessary introduction to the special work of the terms following. The work of these two terms however is complete in itself. The text-book is Comstock's Manual, extended. In the spring term, the time is given to eutomological methods, including field work in observation and collecting, laboratory work in preparation, dissection, and preservation, and in the study of life histories by the aid of the vivarium.

In the fall and winter terms of the fifth year, the student pursues the independent and critical study of systematic entomology, the work in which may be restricted when desired to groups of special agricultural importance. This course is followed in the spring term by lectures and practice in economic entomology.

After the winter term of the fourth year, the work in this course is dependent in each term upon the preceding work in the same line, and is most profitably taken in the order of sequence given.

Zoology.—Winter term, third year. Using Orton's Zoology as a text-book, the student becomes acquainted with the basis of zoological classificatiou. The comparison of selected types and the study of available forms by the aid of keys is also a part of the work of the term.

Extended Course.—The fall and winter terms of the fourth year are given to a study of morphology, in which a series of dissections of selected types is made. A short series of lectures on development closes the winter term. In the spring, the student is recommended to take the work of that term in the entomological course, the instruction in which may be sufficiently varied to be of equal use to both.

The study of systematic zoology is begun in the fall term of the fifth year, and by the selection of special groups is carried through to the end of the winter term. In the spring, a course of lectures outlines the principles in the geographical and geological distribution of animals, and presents the main features of evolution. Reference studies, and essays by the student, are a part of the work.

The studies of this course should be taken in the order given.

Means of Illustration.—The zoological museum, containing numerous representatives of the several classes, especially full in the fishes and mollusks of Kansas, and in illustrations in economic and systematic entomology. Increasing material in skins, alcoholic and anatomical preparations are available also for the use of the student. Value, including cases, \$8,000.

Anatomy and Physiology.

Anatomy and Physiology.—10 weeks, fall term, third year. Human anatomy is made the basis of a thorough study in physiology and hygiene. This includes such subjects as digestion and food; circulation of the blood; respiration and ventilation; secretion and excretion; the nervous system; and the special senses. The course embraces, to some extent, comparative auatomy and physiology, affording preparation for the study of stock breeding, zoology, and veterinary science. Martin's Human Body is used as a text-book. Skeletons and an Azoux manikin, with charts and drawings, furnish the means of demonstration. Valued at \$1,200.

Extended Course.—This will include a general review, with advanced work in anatomy and physiology, human and comparative. It will be supplemented by dissection and experimental work in the laboratory. These studies must be taken in the following order: General review of anatomy, advanced physiology, comparative anatomy and physiology.

Special Hygienc.—Fall term, fourth year. To the young women a course of daily lectures is given by the lady principal, upon the laws of life and health. The course extends over a period of 14 weeks, and covers questions pertaining to personal health and the health of the household, such as food, air, exercise, clothing, temperature of rooms, and care of sick room.

Veterinary Science.

The 12-weeks course of lectures to the young men, in the winter term of the fourth year, is adapted to wants of farmers and stockmen, and includes such topics as the following: Hygiene and nursing of sick and wounded stock; diseases of bone and their treatment; diseases of the circulation, respiratory and digestive systems, their causes, treatment, and prevention; surgical operations; difficult parturition; shoeing and lameness; veterinary dentistry; horse judging and examination for soundness; some contagious and infectious diseases—their nature and prevention; the principal medicines used in treating sick animals, and how to give them. Whenever practicable, operations are performed before the class, and students are requested to assist.

Extended Course.—This course is intended for students who desire to pursue the study further than the limited time of the regular course will allow. It will be made as practical as possible. In contagious and infectious diseases, a study will be made of the organisms which produce diseases of stock, the periods of incubation of the disease, symptoms, prevention, and treatment.

Winter Term.—Theory and practice of veterinary medicine; conformation with reference to particular requirements of animals; soundness, and law of warranty.

Advanced work is offered in the spring term in comparative anatomy and physiology, materia medica, and surgery.

The extended course must be preceded by the required work of the fourth year, and must be taken in the order given.

Means of Illustration.—A laboratory fitted with apparatus, instruments, and reagents, for the study and treatment of disease. An Azoux model of a horse, which is dissectible, showing nearly 1,000 anatomical structures, skeletons, charts, and a large collection of anatomical specimens, showing healthy and diseased structures. Valued, with cases, at \$3,000.



CHEMICAL LABORATORY



CHEMICAL LABORATORY, ANALYTICAL ROOM,

Chemistry.

The study of chemistry occupies 44 weeks. Fourteen weeks are first given to Inorganic Chemistry. In this the elementary principles of the science are studied, with special reference to familiarizing the student with the essential phenomena of chemical action. Combination by weight and by volume; formation of bases, acids, and salts, and the relations existing between them; systematic nomenclature and notation; the natural classification of the elements, based upon their properties—these, with careful study of the most important properties of the commoner elements, furnish the basis for the work. The facts studied are illustrated whenever practicable by experiments on the lecture table. In addition to this, each student gives two hours weekly to personal repetition of such experiments as can be performed with simple apparatus. Preparation of the elementary gases and a number of compounds, with experiments illustrating their properties, neutralization of bases and acids, and experiments illustrating the formation and stability of salts, are examples of the kind of work done by the students. Remsen's Introduction to the Study of Chemistry is used as a text-book.

The course in Organic Chemistry extends over six weeks. This is taught by lectures, in which the object is less a presentation of systematic organic chemistry than a study of the occurrence, manufacture and uses of the more important organic compounds met with in everyday life. In so far as the time and subjects will permit, however, the chemical relations existing between the various classes of compounds, and their relations to inorganic compounds, are set forth as simply and distinctly as possible. The subject is taught by lectures accompanying Willard's Organic Compounds of Everyday Life as a text-book. The lectures are illustrated by experiments, but the students do no laboratory work in this connection.

The course which, for convenience, is designated Analytical Chemistry is not designed so much to perfect the student in analysis as to familiarize him with the properties, the resemblances, and differences of the compounds of the various bases and acids. It is a course in experimental chemistry in which the regular methods of identification and separation of substances are used as a basis for the work. Each student has his own worktable with water, gas, reagents, etc., and works eight hours per week for 10 weeks. He is first given single salts of known composition, then simple known

mixtures, and finally unknown substances, which may be soluble or insoluble, simple or complex.

In addition to the laboratory work, the student is required to study carefully the nature of the chemical reactions which take place. Besides the small handbook used as a guide in the laboratory, students are expected to consult the larger works of reference. Two hours weekly are spent in the lecture room, in which the teacher conducts a quiz upon the subject and explains any obscure points. Throughout the term, the student is required to express by equations the reactions observed in the laboratory. The aim of the course is to unify and amplify the student's knowledge of general chemistry.

Chemistry of Foods and Agricultural Chemistry.—During four weeks of the fall term of the third year, attention is given to the chemistry of milk, butter, cheese, common grains, vegetables, and fodder plants. During the spring term, the relations of chemistry to soils and growing crops are studied. Some of the subjects taken up are the breaking down of minerals and rocks into soils, erosion, transportation, and deposition; composition and classification of soils; the relations of plants to the constituents of the air—oxygen, nitrogen, water, carbon dioxide, ammonia: manures—their composition and use; green manuring; plowing; draining.

Extended Course.—For those students desiring to study chemistry further, either for itself or as an auxiliary to other branches, a course in Advanced Inorganic Chemistry is offered, extending through the fall and winter terms. This course is designed to increase the student's knowledge of the facts of chemistry, and to give breadth and strength to his grasp of their relations. Remsen's Inorganic Chemistry is used as a text-book, and special topics are treated in lectures. Carefully chosen laboratory work, designed to illustrate the principles of the science, forms an important part of this course. Following this, the spring term is given to Organic Chemistry, Remsen's Organic Chemistry being used as a text-book. The laboratory work done in this connection includes the preparation of a considerable number of organic compounds, and, if time permits, the quantitative separation of some of the more important proximate constituents of foods and fodders.

Quantitative Analysis may be taken up at any time, if the student's proficiency makes it advisable. It may be taken to any extent, from a partial course to the equivalent of two studies in the fifth year. After the necessary amount of preliminary training, the students may give special attention to any of the various lines of quantitative analysis, such as that of foods and fodders, soils

and fertilizers, ores, water, gases, etc. The investigation of special chemical questions will be encouraged.

Means of Illustration.—Seven rooms, fitted with tables and apparatus for a class of 80 students in qualitative analysis, eight in quantitative analysis, including necessary facilities for assaying, and general illustrative apparatus. Value, exclusive of building, \$5,000.

Mineralogy.

The common minerals are studied during six weeks of the winter term of the second year. One hour per day is given to recitations and to class-room study, and the same time to determination of minerals by their physical and blowpipe characters.

Means of Illustration.—A well-selected mineralogical collection representing the various forms, colors and structures of all but the rarest species. This is supplemented by a similarly good collection of rocks. Valued at \$3,500.

Geology.

During the spring term of the fourth year a study is made of the igneous, atmospheric, aqueous and organic agents that have brought the earth to its present condition; the structure and arrangement of rocks; the order of succession in the strata of the earth's crust and in the life of the globe. Prominence is given to facts having an economic bearing, valuable mineral deposits in Kansas receiving special attention.

Means of Illustration.—Collections of specimens representing the principal geological formations; Kansas fossils and rocks, typical of the geological ages found in the state. Valued at \$1,500.

Physics.

Elementary Physics.—Spring term, first year. This term's work is intended to give the students a general view of the subject, with such laws and principles as will be useful to them in scientific studies. Apparatus will be used and scientific investigation encouraged. Text-book, Carhart and Chute's Elementary Physics.

Advanced Physics.—Fall term and half of winter term, fourth year. This time is given to the experimental and text-book study of sound, heat, light, electricity, and magnetism. Meteorology will be treated in connection with the several subjects in physics, including a careful study of instruments and methods employed in taking meteorological observations. Text-book, Barker's Physics, advanced course.

Extended Course.—Advanced work in physics is offered during

each term. It must be preceded by the physics of the required course.

Means of Illustration.—Complete physical apparatus, for general instruction in physics, and meteorological instruments, including a self-recording anemometer. Among the apparatus for special work may be mentioned, Coulomb's torsion balance, Kohlrausch differential galvanometer with reading telescope, Deprez-Carpentier ammeter, Ayrton and Perry's voltmeter, Thomson's potential and current galvanometers, Carhart-Clark standard cell, standard legal ohm, Wheatsone's meter bridge, Edelmann dynamo. The value of the whole is \$4,500. The distribution of power by electricity is illustrated at the College by a 40-horse-power generator and four motors of 5, 8, 10 and 12 horse power.

Mechanics and Engineering.

Elementary Mechanics.—Winter term, third year. The laws of motion and force are treated and applied to falling bodies and other commonly observed phenomena. The subjects of central forces, friction, work, energy, complete the study under the head of dynamics. Under statics, the following subjects suggest the outline: Representation and composition and resolution of forces; analytical relations between forces in general; moments; conditions of equilibrium; center of gravity and stability. About two weeks are given to the study of the elementary machines, as the lever, screw, wedge, etc. Dana's Text-book of Elementary Mechanics is used.

Engineering.—Spring term, fourth year. No text-book adapted to our general course is to be had, and the subject is presented by lectures. The object of the course is to present such subjects in elementary, mechanical and civil engineering as should be understood by every young man educated in the arts and the applications of science. The various motors used for transforming energy are discussed; the various forming operations which give useful forms to all materials are presented. A study of the materials of construction is introductory to an analysis of various structures, their forms, strength, and desirability. Applications of the principles of mechanics are frequently made. Draughting is an essential feature of the work. Haswell's Engineer's Handbook is used by the class in connection with the lectures.

Extended Course.—In the fall term the materials of engineering, their durability, strength, and manner of use, are studied, with alternate lessons in applied mechanics.

The applied mechanics will be a continuation of the study of

CARPENTER SHOP.



mechanics, with its special application to problems in machine construction and general engineering. In the winter term in this course, a study of machine design, using Kline's Elements of Machine Design, alternates with work in theoretical hydraulics. The machine design involves a careful study of the current practice in designing such elements as fastenings of various kinds, bolts, rivets, keys, etc., of belting, gearing, bearings, frames, etc. In connection with the drawing department, a study of graphical statics and the design of various steam-engine valve gears is offered.

In the spring term, a study of heat and heat engines, with special attention to the steam engine, is made. An advanced class in steamengine design will make complete drawings and a study of the various parts of a steam engine, the work alternating with a study of inventive design. This work attempts to strengthen the inventive faculty, by means of problems in which certain conditions are assumed and a device is evolved for obtaining the required result. A study of Flather's Measurement of Power will alternate with laboratory practice in engineering, such as duty trials of a 12-horse-power Atlas Engine, a 50-horse-power Ball & Wood engine, steam pumps, indicator practice, boiler tests, standardizing of instruments, and such other work as the equipment will allow.

Woodwork and Ironwork.—Woodwork is required of all young men during one term of the first year. In the first term's work a definite, graded series of tasks is given in joining, work to dimensions, and simple problems in construction, with the proper use and care of common bench tools, through which each student is advanced according to ability. Practice is given later in general woodwork, carpentry, cabinet making, turning, and pattern making; and the advanced students may have work suited to their chosen line, with special problems of construction, and special training in the use and care of fine tools. All work during industrial hours is laid out by the superintendent, and belongs to the shop, except that fourth-year students are allowed to work from drawings of their own upon articles for their own use and profit. All students, when permitted, have the use of the shop outside of the practice hours for work of their own, under direction of the superintendent.

A general course in ironwork includes graded work in blacksmithing, the management of the forge and hammer, drawing out, welding, forming, etc.; graded work in founding, covering, bench and floor molding in iron and brass; also graded work in machineshop practice, including bench and machine tool work, filing, chipping, laying out work, boring, turning and planing the metals.

Means of Illustration.—Carpenter shop, with 220 separate kits of

tools, and benches for 45 students in each class; lathes, planer, circular saws, friezer, mortising machine, grinder, and tool room containing all kinds of woodworking tools for general use. Shops for ironwork contain 16 blacksmith forges; brass foundry, with 12 benches and 50-pound furnace; iron foundry, with two-ton cupola and good assortment of flasks; machine shop, equipped for 30 students, with hand tools, six screw-cutting lathes, one speed lathe, planer, shaper, No. 2 Brown and Sharpe universal milling machine, Walker universal grinder, drills, bolt cutter, and tool room of fine tools. The heating and power plant attached form part of the illustrative apparatus, containing five boilers, pumps, one 50-horse-power Ball & Wood engine, one 10-horse-power Atlas engine, 40-horse-power Belknap generator, and other illustrative apparatus. Wood shop run by a 12-horse-power motor; iron shop, by an 8-horse-power. Value of equipment, \$24,500.

Mathematics.

Algebra.— The first year is given to the study of algebra. In the first term, arithmetical processes are briefly reviewed and generalized by the use of negative numbers. The student is made familiar with algebraic notation, the primary processes, factoring, fractions, and the simple equation. In the second term, the equation in its various forms and applications, and the theory of exponents, are made subjects for study. The third term is given to ratio, proportion, series, logarithms, and such other topics as are essential to success in every course in mathematics. Text-book, Wells's Higher Algebra, edition of 1895.

Geometry.—In geometrical drawing of the first year, the student has already become familiar with geometrical forms, and the construction of figures representing them. Plane geometry is studied during the fall term of the second year. Half the winter term is then given to solid and spherical geometry. Throughout the course, original demonstrations, and the solution of practical problems involving the theorems demonstrated, are required of the class. Textbook, Wentworth's New Plane and Solid Geometry.

Trigonometry and Surveying.—Fall term, third year. All the essential principles of plane trigonometry are carefully developed and thoroughly mastered. A short treatment of spherical trigonometry follows. Surveying includes theory, adjustment and use of instruments, platting, determination of areas, dividing land, United States government surveys, triangulation, leveling, topographical surveying, and railroad surveying. Field practice with compass, transit, plane table and Y level is required. A topo-

graphical map, the data for which are gathered during the fall term, is drawn by each student during the winter term. Text-book, Wentworth's New Trigonometry and Surveying.

Extended Course.—This department offers three terms of elective work in the pure mathematics. Fall term, analytic geometry; winter term, differential calculus; spring term, integral calculus. The aualytic geometry is required in preparation for the elective work in eugineering, graphics, and physics, and the calculus is recommended.

Means of Illustration.—Transits, plane table, compasses, levels, chaius, models, etc. Valued at \$1,400.

Bookkeeping and Commercial Law.

First Year.—Six weeks of winter term. Beginning with a simple cash account, bookkeeping is developed through all the essential principles. Considerable time is given to those forms best adapted to farm and business life. Each student provides a full set of blanks and keeps a regular set of books, in which accuracy of calculation and posting and neatness of execution are just as essential as correct understanding of the principles. Text-book, Pierce's College Manual. In connection with the work in bookkeeping, a practical course of 12 lectures in commercial law is given, including contracts, farm rights, negotiable paper, sales, real estate, partnership, bailment, common carriers, and business forms.

Drawing and Descriptive Geometry.

Free-hand Drawing and Sketching.—The course in free-hand drawing comprises 42 lessons in surface designing and 24 lessons in sketching from the object. The surface designing is taught in the fall term of the first year. The student begins with forms involving the straight line and the arc. He is led to note the effects of geometrical arrangement, repetition, alternation, symmetry, proportion, harmony, and contrast. Later, the conventional ornament is taken up, and more subtle curvatures and complex forms are introduced. Toward the close of the term, natural forms and historic ornament in the flat are studied. The work in sketching is connected with the study of linear perspective in the spring term of the third year. The models used are geometrical solids and objects of utility and beauty, whose forms bear close relationship to geometrical types. The students are led to recognize the facts, relations and principles involved in the apparent form of the object, to note the distribution of light, shade, shadow, and the reflection on the same, and deduce the general principles which the observation and comparison of these appearances are found to establish. Walters's drawing books are used as text-books.

Graphics.—The course in graphics comprises six weeks of geometrical drawing; six weeks of orthographic and axonometric projection, including plane intersections; 10 weeks of descriptive geometry, including the study of plane and space curves and the principles of shades and shadows; and 16 lessons in linear perspective. The geometrical drawing is taught in the winter of the first year, and consists of the construction of perpendiculars, parallels, angles, and polygons, the circle and its secant lines, the ovoid, the oval, and the spiral, various geometrical designs and elementary architectural forms, the use of drawing board and T square, and the conventional representation of building materials. Projective drawing and descriptive geometry are taught in the second year, after the student has completed algebra and geometry; linear perspective is taught in the spring term of the third year, in connection and alternating with work in sketching from object. The College furnishes drawing board, T square, triangles and water colors for the graphic work done at the College, but all tools, including drawing board, T square, triangles, compasses, and protractor, for home use, must be furnished by the student. Text-books: Walters's Elementary Graphics, books I to IV.

Technical Drawing.—During the winter term of the third year, each student is required to draw, ink and letter a map delineating the surveys made by the trigonometry class. In the fall term of the fourth year, two afternoons per week are given to dimension sketching, draughting, designing, and rendering in ink and water color, with the object of acquainting the student with the practical methods followed in the workshop, the draughting room, and the studio. Accuracy of measurement and neatness of execution are required in all work. Every student is instructed in the manipulation of the blue and black printing processes.

Some of the graphic work of the different classes and special students is retained by the department for exhibition during commencement.

Extended Course.—Work for students who intend to follow pursuits in any of the various lines of designing, building, architecture and decoration is offered, as follows: (a) Advanced Descriptive Geometry, winter term, consisting chiefly of a study of double-curved or warped surfaces and their sections and intersections; (b) Historic Ornament, spring term, a study of representative historic facades, decorations, and details; (c) Heating and Ventilation, fall term, a critical comparison of the various existing systems; (d) Graphic Statics, winter term, with applications in the construction of arches, trusses, and machines; (e) Architectural Composition, spring

term, involving the preparation of drawings and specifications for architectural structures. Students intending to take this course should, in addition, study analytical geometry, in the fall term of the fourth year, with the department of mathematics; materials of construction, in the fall term of the fifth year, with the department of engineering, and landscape gardening, in the spring term of the fifth year, with the department of horticulture.

Means of Illustration.—Models, plaster casts, patterns, charts, easels, and implements. One of the class rooms is provided with top light, and furnished with 25 Dietzgen drawing tables. An adjacent room is fitted up with running water, coating table, ruby light, etc., for blue and black printing. Valued at \$2,300.

English Language and Literature.

Analysis.— Fall term, first year. This includes the origin and growth of the language, the history of its grammatical forms, the analysis of sentence making, and the discussion of idioms and difficult constructions, together with such contraction, transposition and transformation of sentences as will aid in securing variety of expression. No text-book.

Structure.—Winter term, first year. One term's work is given to careful study of words and their elements—roots, prefixes, and suffixes. The most fruitful primitives from Saxon, Latin and Greek are learned, and also the laws governing the formation of derivatives. Attention is given to the history and changes of words, and daily exercises teach careful discrimination in their use. Textbook, Swinton's Word Analysis.

Composition.—Spring term, first year. One term is given to the study and practice of composition, including the elements of rhetoric. Text-book, Genung's Outlines of Rhetoric.

Rhetoric.—Spring term, third year. This is the study of higher rhetoric, including discussions of the fundamental processes of composition and the essential elements of the different forms of discourse. Selections from good authors are studied for the application of principles and the outlines of criticism. Text-book, Genung's Practical Rhetoric.

Literature.—Fall term, fourth year. This includes the history and development of English literature, with illustrations from the best authors. Students are led to appreciate the power of our mother tongue, and at the same time to gain some acquaintance with the best thought of the world. Text-book, Pancoast's English Literature.

In the spring term of the fourth year, an additional course is pro-

vided for the young women of the class. This consists of a study of nineteenth-century authors, with the reading and discussion of standard works. Hodgkin's Leaflets are used as a guide.

Rhetoricals.—This course is designed to make clear writers and forcible speakers; professional elocution is not contemplated. Given sufficient theory, continuous practice is deemed indispensable. The student is, therefore, required to take rhetoricals weekly throughout the course.

First Year. Declamation; letter and essay writing, paying especial attention to chirography, punctuation, capitalization, paragraphing, etc.; with criticism by the class and the instructor.

Second Year. Written practice on the work of the first year; essays; letters; paraphrases; resolutions; speeches; preparation of briefs for debate; delivery of the same; declamation; gesticulation.

Third Year. Outlining; theme writing; practice on fundamental processes, as given by Genung; essays; book reviews; character studies; critiques. Each member of the third-year class delivers publicly one declamation and an original oration, being drilled on the delivery of the same, in private rehearsals, by the instructor. Text-book, Genung's Rhetoric.

Fourth Year. Topics are assigned that give practice in all forms of writing and speaking. From time to time the class is organized as a farmers' institute, a teachers' institute, a political or commercial convention, and appropriate duties apportioned. In addition to the class work, two public orations and a graduating thesis are required.

History and Political Science.

General History.—Fall term, third year. The objects of the course are the fixing of the chief events in the memory, the training of the reason, and the cultivation of the taste for historical reading. Outlines are made and memorized, questions are asked that require thought and research, original sources are examined, and reference reading required. Text-book, Myers's General History.

Civil Government and Political History.—Winter term, third year. Training for citizenship is kept constantly in view. Investigation and discussion of all disputed points are encouraged. Text-book, Hinsdale's American Government, revised edition.

History of Science and Industry.—Six weeks of the winter term, fourth year. The development of science and industry is traced in a course of lectures. Text-book, Wright's Industrial Evolution of the United States.

Extended Course.—Fall term, history of the nineteenth century; winter term, comparative politics; spring term, constitutional law.

Economic Science.

Course in Elementary Study.—Spring term, third year. Pains are taken to compare conflicting views and point out sources of information on all sides of vexed questions. Each student is required to present at some time during the term an original paper on some topic assigned by the instructor. Text-book, Andrews's Institutes of Economics.

This course is designed to serve as an introduction to the

Extended Course.—The following six elective courses will be offered: Fall term, "Socialism and Social Reforms" and "Taxation, Tariff, and Railway Transportation"; winter term, "Money" and "Distribution"; spring term, "Banking" and "Principles of Sociology." The work will consist of lectures, class-room discussions, written work, occasional use of texts, and the constant use of the library. The attempt will be made throughout to enable the student to handle the literature of the science, to examine the subject from different points of view, and to form intelligent judgments regarding economic questions. While it is desirable that the student seeking proficiency in economics shall take as many courses as practicable, the courses will not be made so closely dependent upon one another that failure to take one will exclude from another.

The work in history and political science will be found helpful to the student in economic science.

Philosophy and Logic.

Psychology.—Winter term, fourth year. A short course in psychology gives the general principles of intellectual and moral philosophy. Sensation, apperception, perception, memory, imagination, thought, feeling and volition are topics of explanation and analysis. Theories of right and wrong and correct principles of action are made the means of a clear understanding of individual responsibility, with special attention to personal rights and duties. Topics are assigned for research, to be presented in thesis form at the close of the term. Text-book, Dewey's Psychology.

Logic.—Spring term, fourth year. The art of reasoning correctly is aided by a study of systematic logic, both deductive and inductive. Special prominence is given to methods for exact observation and experiment and correct principles of classification. The previous researches and experience of the students are made to illustrate these principles. Text-book, Jevons-Hill, Elements of Logic.

Household Economy and Sewing.

Household Economy.—A series of lectures to young women of the second year continues through a term of 12 weeks. These cover the subject of marketing, the chemistry of cooking, order, neatness and beauty in housekeeping, and comfort of a family.

Cooking.—During the winter term the young women who have lectures on household economy are required to cook one hour each day. They are taught various methods of making the substantial articles of food, as well as allowed to spend some time on the dainty dishes. During the term, they have practice in waiting on the table and in serving guests, thus putting the lectures into immediate practice.

During the fall term, any students who have passed the study of household economy may take cooking as an industrial, in which canning fruits, making preserves, jellies, pickles, mince-meat, desserts, cake and fancy breads form the principal part of the work.

The class spends one hour each day in the kitchen laboratory, and cooking is done by each student.

Dairying.—During the spring term, daily instruction and practice in domestic dairying are given the young women of the second year by the instructor in household economy. Here the regular daily work is supplemented by a short course of lectures, intended to explain the best practice in the arts of butter and cheese making, and to give the reasons therefor. The following topics cover, in the main, the instruction given the class: Influences affecting the quality and quantity of milk; butter making; creameries; "deep" and "shallow" setting systems; packing and preserving butter; the household and factory systems of cheese making.

Sewing.—One term of sewing is required before the completion of the first year of study. During this term the work is carefully laid out by the Superintendent in a series of lessons, graded to the capabilities of each student. To more advanced students all ordinary forms of sewing with needle or machine are taught, and any student may furnish material, and work for her own advantage under direction of the Superintendent. Cutting and fitting by a straight-line system are taught, and the systems are furnished at wholesale rates. Fancy needlework and knitting may be taken at certain stages of the course.

Extended Course.—The work on breads, meats and salads (winter term) covers the study of flours, yeasts, and baking powders, as well as knowledge of the making of many kinds of bread. The work on meats includes a study of meats in the shop or on the block, the best





SEWING ROOM

ways to cook certain cuts of meat, and special work on the use of left-over meats for the making of savory and nourishing dishes. The work in salads gives practice in making those of meats, vegetables, eggs, and fruits.

Cake, pastry and desserts (spring term) covers the principles governing the making of the various kinds of cake and their uses, in preparing meals, and entertainment for friends. Pastry covers, puddings and sauces, pies, and puff paste; the use of various flours in these foods and the manipulation of materials. Desserts includes the uses of ice creams, ices, sherbets, and frappes, and the making, packing and serving of these dishes.

Regular lessons are given on the values of the foods under consideration and the most convenient method of serving them. Practice is afforded in the kitchen laboratory. Deftness of manipulation as well as knowledge of combinations must be attained before this advanced course can be taken. For certain portions of the work, special chemistry, botany and entomology are required.

Means of Illustration.—Kitchen laboratory, with ranges, cooking utensils, dining-room furnishings, dairy furniture. Valued at \$900. Sewing rooms, with eight machines, models, patterns, and cases. Worth, \$700.

Music.

Vocal Music.—Instruction is furnished free of charge, under the direction of the Faculty. Classes meet on Wednesdays for advanced pupils, and for beginners on Tuesdays and Thursdays, at 1:30 p.m. This study is taken up at the choice of the student, but regular attendance is required as at the other classes. The advanced class shares in the music of public exercises during commencement week. Text-books, Scansion and Song, Brown's Prismatic Charts, Hatton, Concone, Marchesi, with selections from the opera and oratorio.

Instrumental Music.—Instruction upon the piano, organ, mandolin, guitar, and the more important orchestral and band instruments, is given free to students in the regular courses, under the following restrictions:

It may be taken as an industrial by ladies only, after the required industrials of the first year, and after passing an examination equivalent to one term in vocal music, in which case one hour's daily practice at the College is required.

It may be assigned as an extra at any time, when a student does well in the general course of study.

Class organization shall be wholly under control of the professor in charge. Students in the music department shall be subject to the call of the professor for music connected with College exercises.

Students who are sufficiently advanced to join the College orchestra, which has its rehearsals on Wednesday, at 2:30 p.m., or the College cadet band, which practices in connection with military drill, may become members by assignment.

The College pianos and organs are used for daily practice; the other instruments must be provided by the pupils using them. A full course, extending over four years, includes harmony and composition; but students may take lessons for a single term if they choose. Text-books, standard instructors, with suitable studies and selections.

Means of Illustration.—Music rooms, with five pianos, four organs, and other instruments, valued at \$1,800, and nine charts, valued at \$1,800.

Printing.

Two courses are pursued in this art. In one the student is taught the use of the implements or tools used in typography; composition and imposition; correcting proof; technical terms; presses and their workings; and the general duties of a first-class workman. The other course of lessons embraces instruction in spelling, capitalization, syllabication, punctuation, proof reading, and such other work as will make the student accurate and expert. Wilson's Punctuation is the text-book; but much of the instruction is oral—such as grows out of the everyday experience of the office.

Admirable drill is furnished by the *Industrialist* to all, but especially to those who take the full course. The printing which the departments of the College require gives to the advanced student a fair knowledge of the principles and practice of job work.

Means of Illustration.—Printing office, with 30 pairs of cases; large fonts of 6-point, 8-point, 10-point and 11-point Roman type; a good assortment of job type and brass rule; a Babcock cylinder press, with electric motor, a New Liberty quarto-medium job press, a Gordon eighth-medium job press; a mitering machine; a rule-curving machine; and a paper cutter. Value of equipment, \$4,800.

Military Training.

Theoretical.—Students of the first year have one lesson each week of the winter term in drill regulations. A course of lectures is given twice a week during the winter term of the second year. These are designed to show how an army is organized, equipped, and supplied; to explain some of the minor operations of war; to show the organization of the militia under the militia law of this state. Instruction is afforded to such as desire it in other military subjects.

Practical.—All young men below the third year in the regular



PRINTING OFFICE.

course are assigned to drill, unless excused by the Faculty. Drills are required from four to five times a week in fall and spring terms. In the winter term, drills are arranged to occupy time during the class hours not otherwise provided for. Special attention is given to "setting up," or physical development.

The practical course in infantry embraces small-arm target practice, and, as far as possible, all the movements prescribed by the "Drill Regulations of the United States Army" that are applicable to a battalion. Instruction in artillery includes, as far as practicable, such portions of the United States drill regulations as pertain to the formation of detachments, manual of the piece, mechanical maneuvers, and firing blank cartridges.

The College battalion is divided into companies, which are officered by students appointed each term by the professor in charge, with the approval of the President.

Arms and accounterments are furnished by the United States government, the students being required to keep such as they use in proper condition. Uniforms for drill are furnished by the College.

By order of the secretary of war, the names of the three most proficient fourth-year students are reported to the adjutant general of the army and the adjutant general of the state.

Means of Illustration.—Armory, containing 200 stands of arms (breech-loading cadet rifles, caliber .45), with accounterments; two three-inch rifled guns; also swords, uniforms, etc. Value, exclusive of arms, \$1,900.

General Information.

EXAMINATIONS.

Examinations for admission are held at the beginning of each term, as laid down in the calendar of the College year. Applicants entering at any other time during the term have special examinations. These examinations are chiefly written, and a standard of 70 per cent is required to pass any study.

Examinations in the course are held as arranged by the Faculty. The results of these examinations are marked on a scale of 100, and combined with the average of the preceding daily exercise upon the same scale into a grade for report to the Secretary. But any student not present at three-fourths, at least, of the class exercises, receives, at such times as the teacher may name, a more extensive examination than the general one; and this examination alone decides the grade. Unexcused absences are taken into account in calculating grades.

Averages of grades in the register are made by giving the final term grade a value of two-thirds and previous grades a value of one-third. After each term examination during the first year of attendance, a report of advancement is made to parents; and any student, upon leaving College at the close of a term, may receive a certificate of standing.

The final grade and the term average must be at least 70 for passing any study; and any student who fails to pass in two studies of the course may either drop back a year or withdraw from College.

After completing the studies of the first year, students are allowed special examinations only upon recommendation of the professor in charge, and by permission of the Faculty. Permission for examination in studies not pursued with a class must be obtained at least two months before the examination is held. All such examinations are held under the immediate supervision of the professor in charge, and are thorough and exhaustive.

Candidates for graduation must make good all deficiencies before entering upon the work of the spring term of the fourth year.

Students are not catalogued in the third-year class unless deficiencies of previous years are provided for.

Students deficient in entrance studies must make good such deficiencies before entering upon the work of the second year.

TERMS OF ADMISSION.

Applicants for admission at the beginning of the College year must be at least 14 years of age, and able to pass a satisfactory examination in reading, spelling, writing, arithmetic, geography, English grammar, and United States history. Specimen questions will be furnished on application. Those applying later in the year must show sufficient advancement to enter the classes already in progress. Every effort should be made to begin with the first day of a term, in order to advance with the classes from the first.

The following diplomas and certificates will be received in lieu of entrance examinations:

1st. Diplomas received on the completion of a county course of study which has been approved by the Faculty, when properly signed by the county superintendent.

2d. Certificates of passing the grammar grade in any city school with a course of study approved by the Faculty, when properly signed by the city superintendent.

3d. Kansas teachers' certificates issued by the county board of examiners, showing that the above-named studies have been passed with a grade of at least 70 per cent.

The Faculty have approved the courses of study adopted by the following counties and cities; others may be submitted for approval at any time:

atany nme.				
v		COUNTIES.		
Allen, Anderson, Barber, Browu, Bourbon, Butler, Chase, Cherokee, Clay, Cloud, Cowley,	Douglas, Elk, Ellis, Ford, Franklin, Geary, Greenwood, Harper, Harvey, Jackson, Jefferson, Jewell.	Kingman, Labette, Leavenworth, Linn, Lyon, Marshall, Marion, McPherson, Miami, Mitchell, Montgomery, Morris,	Neosho, Ness, Osage, Osborne, Ottawa, Pottawatomie, Republic, Reno, Rice, Riley, Rooks, Rush,	Russell, Saline, Sedgwick, Shawnee, Smith, Sumner, Wabaunsee, Washington, Wichita, Wilson, Woodson, Wyandotte.
Dickinson, Doniphan.	Johnson,	Nemaha,	Rush,	wyandotte.
an omagnitum.	,	CITIES.		
Abilene, Alma, Anthony, Argentine, Arkansas City, Atchison, Angusta, Baldwin, Belleville,	Beloit, Burlingamo, Burlington, Caldwell, Chanute, Cherry Vale, Chetopa, Clay Centre, Clifton,	Coffeyville, Columbus, Concordia, Council-Grove, Dexter, Dodge City, El Dorado, Ellsworth, Emporia,	Eureka, Fort Scott, Fredonia, Garden City, Garnett, Gaylord, Girard, Great Bend, Hiawatha,	Holton, Horton, Humboldt, Hutchinson, Independence, Iola, Junction City, Kanopolis, Kansas City,

Kingman.	Manhattan,	Osage City,	Pratt.	Valley Falls,
La Cygne,	Mankato,	Osborne,	Russell,	Wamego,
Larned,	Marion,	Oswego,	Salina,	Washington,
Lawrence,	McPherson,	Ottawa,	Scranton,	Waverly,
Leavenworth,	Minneapolis,	Paola,	Seneca,	Wellington,
Lebo,	Neodesha,	Parsons,	Solomon City,	Winfield,
Lincoln,	Newton,	Pittsburg,	St. Mary's,	Wichita.
Lyons	Olathe	Pomona	Toneka	

Applicants over 18 years of age, who, for lack of advantages, are unable to pass the full examination, may be received on special conditions.

Applicants for advanced standing in the course must pass examination in all the previous studies of the class to be entered; but, if they have pursued such studies in other institutions of similar rank, they may receive credit for their standing in those institutions, upon presenting a certificate from the proper officer, showing that their course has been equivalent to that given here.

GENERAL DUTIES AND PRIVILEGES.

General good conduct, such as becomes men and women anywhere, is expected of all. Every student is encouraged in the formation of sound character, by both precept and example, and expected, "upon honor," to maintain a good repute. Failure to do so is met with prompt dismissal. No other rules of personal conduct are announced.

Classes are in session every week day except Saturdays, and no student may be absent without excuse.

Students enrolled in any term cannot honorably leave the College before the close of the term, unless excused beforehand by the Faculty. A full and permanent record of attendance and scholarship shows to each student his standing in the College.

Chapel exercises occupy 15 minutes before the meeting of classes each morning, and unnecessary absence from them is noted. On Sunday no services are held in the chapel, but students are urgently advised to attend the different churches of the city.

Every Friday, at 1:40 p.m., the whole body of students gathers for a public lecture or for rhetorical exercises of the third- and fourth-year classes.

Systematic training in gymnastic and calisthenic exercises is provided for both young men and young women, under teachers appointed by the College.

There are four prosperous literary societies, which meet weekly, in rooms set apart for their use. The "Alpha Beta," open to both sexes, and the "Ionian," for young women, meet Friday afternoon. The "Webster" and the "Hamilton" admit to membership young men only, and meet on Saturday evening.

Branches of the College Y. M. C. A. and Y. W. C. A. hold weekly meetings.

Once in each term the College Hall is opened for a social gathering of Faculty and students, in which music, literary exercises and friendly greeting find place.

Public lectures by prominent men of the state are provided from time to time, as opportunity offers. All are free.

LABOR AND EARNINGS.

Every encouragement is given to habits of daily manual labor during the College course. Only one hour daily practice in the industrial departments is required; but students are encouraged to make use of other opportunities for adding to their ability and means.

All labor at the College is under the direction of the superintendents of the departments, and offers opportunities for increasing skill and efficiency. In regular weekly statements, the students are required to observe business forms and principles, showing from their daily account when and where the work was performed.

The shops and offices are opened afternoons and Saturdays for the accommodation of skilled students in work for their own advantage. Everywhere the student who works wins respect; and it is a matter of pride to earn one's way as far as possible.

The labor of the students in the industrial departments is principally a part of their education, and it is not paid for unless the student is employed upon work for the profit of the College. Students are so employed upon the farm, in the gardens or the shops, and about the buildings. The labor is paid for at rates varying with services rendered, from 8 to 10 cents an hour. The superintendents strive to adjust their work to the necessities of students and give them the preference in all tasks suitable for their employment. So far as practicable, the work of the shops and offices is turned to account for their benefit; and the increasing extent of the grounds and sample gardens brings more of such labor. The monthly pay roll for the past year averages about \$400.

Many students obtain work in the city or upon neighboring farms, and so pay part of their expenses. In these ways a few students are able to earn their way through College. The amount so earned will vary according to the tact and zeal of the student. The majority must expect to provide by earnings outside of term time, or from other sources, for the larger part of their expenses. The long summer vacation of three months offers opportunity for farm or other remunerative labor; and no one need despair of gaining an education if he has the ability to use his chances well.

EXPENSES.

Tuition is free, and no fee for incidental or contingent expenses is charged.

The cost of text-books at the book-stores is, for the first year, about \$9; for the second year, about \$10; for the third year, about \$13, and for the fourth year, about \$15.

The expenses for apparatus and tools to each student during the course are as follows: Drawing, \$4.05; microscope for botany and entomology, \$1.50; case, pins, etc., for entomology, \$2.25; herbarium, \$1.50. The total expense for these articles during the four years is less than \$10.

Board and washing are not furnished by the College. Board, with furnished room, can be procured in private families at from \$2.50 to \$3.50 per week, or table board in student clubs from \$1.50 to \$2.25 per week. Some students board themselves at even less cost; and rooms for the purpose can be obtained at a rent of from \$1 to \$3.50 a month. Washing costs from 50 cents to \$1 a dozen pieces.

Ordinary expenditures, aside from clothing and traveling expenses, range from \$100 to \$200 a year. No institution in the state furnishes an education at less cost to the student.

NAMES AND PRICES OF TEXT-BOOKS.

First Year.

Fall Term.—Wells's Higher Algebra, edition of 1895, \$1.35; Bergen's Elements of Botany, \$1.25; Hitchcock's Key to Genera of Manhattan Plants, 50 cents; Walters's Free-hand Drawing, 25 cents; Sickles's Exercises in Woodworking, \$1.

Winter Term.—Wells's Higher Algebra; Genung's Outlines of Rhetoric, \$1.10; Pierce's College Manual of Bookkeeping, \$1; Walters's Elementary Graphics, book I, 75 cents.

Spring Term.—Wells's Higher Algebra; Swinton's Word Analysis, 40 cents; Carhart and Chute's Elementary Physics, \$1.35.

Second Year.

Fall Term.—Wentworth's New Plane and Solid Geometry, \$1.35; Remsen's Introduction to the Study of Chemistry, \$1.35; Newcomer's English Composition, 60 cents.

Winter Term.—Wentworth's New Plane and Solid Geometry; Walters's Elementary Graphics, book II, 75 cents; Willard's Organic Compounds of Every-day Life, \$1.75.

Spring Term.—Walters's Elementary Graphics, book III, \$1.50;

Failyer and Willard's Qualitative Analysis, 75 cents; Comstock's Manual for the Study of Insects, \$3.

Third Year.

Fall Term.—Wentworth's New Plane and Spherical Trigonometry and Surveying, \$1.35; Myers's General History, \$1.65; Martin's Human Body, \$1.40.

Winter Term.—Dana's Elementary Mechanics, \$1.50; Hinsdale's American Government, revised edition, \$1.50; Orton's Zoology, \$1.80.

Spring Term.—Andrews's Institutes of Economics, \$1.40; Genung's Practical Rhetoric, \$1.25; Walters's Elementary Graphics, book IV, \$1.50.

Fourth Year.

Fall Term.—Barker's Physics, \$3.50; Pancoast's English Literature. \$1.50.

Winter Term.—Barker's Physics; Wright's Industrial Evolution of the United States, \$1; Dewey's Psychology, \$1.25; Thomas and Dudley's Manual of Plant Histology, \$1.50; Hitchcock's Woody Plants of Manhattan, 30 cents.

Spring Term.—Jevons-Hill's Logic, \$1.20; Haswell's Engineer's Handbook, \$3; Le Conte's Compend of Geology, \$1.25; Hodgkin's Literature Leaflets, 30 cents.

Music Department.

Instrumental, for standard text-books and studies, from \$1 to \$3 per term. Vocal, from 60 cents to \$2 per term.

BUSINESS DIRECTIONS.

General information concerning the College and its work, studies, examinations, grades, boarding places, etc., may be obtained from the President or the Secretary.

Questions, scientific or practical, concerning the different departments of study or work, may be addressed to the several professors and superintendents.

Loans upon school-district bonds are to be obtained from the Loan Commissioner.

Bills against the College should be presented monthly, and, when audited, are paid from the office of the Treasurer.

All payments of principal and interest on account of bonds or land contracts must be made to the state treasurer, at Topeka. Applications for extension of time on land contracts should be sent to the Secretary of the Board of Regents, at Manhattan.

The "Industrialist" may be addressed through Pres. Geo. T. Fairchild, managing editor. Subscriptions are received by Supt. J. S. C. Thompson.

Donations for the library should be sent to the Librarian; donations for the museum, to the chairman of the Committee on Museums.

Applications for farmers' institutes should be addressed, as early in the season as possible, to the President.

. The Experiment Station should be addressed through the Secretary of the Council.

Graduates.

This list is made from the best data obtainable. A favor will be conferred by notifying the College Secretary of any errors or changes.

1867.

Henry L. Denison, A. M., Denver, Colo. United States court reporter. Belle M. (Haines) Pond, A. M., Topeka, Kas. Housewife. Emma L. (Haines) Bowen, A. M., Manhattan, Kas. Housewife. John J. Points, A. M., Omaha, Neb. Lawyer. Martha A. (White) Abbott, A. M., Chicago, Ill. Housewife.

1871.

Emily M. (Campbell) Robinson, A. B. Died in 1877. Ella F. (Denison) Whedon, A. B., Lincoln, Neb. Housewife. Luella M. Houston, A. B., Concordia, Kas. Milliner and dressmaker. Charles O. Whedon, B. S., Lincoln, Neb. Lawyer. Kate E. (White) Turley, A. B., Chicago, Ill. Housewife.

1872.

Theophania M. (Haines) Huntington, A. B. Died in 1880.

Albert Todd, A. M., Fort-Hamilton, N. Y: Lieutenant First U. S. artillery.

S. Wendell Williston, A. M., M. D., Lawrence, Kas. Professor of paleontology, State University.

1873.

Eliza Z. (Davis) Stringfield, A. B., Pomona, Cal. Housewife. Sam Kimble, A. B., Manhattan, Kas. Lawyer.

1874.

Harry A. Brous, A. M., M. D., Philadelphia, Pa. Physician. Edgar F. Clark, A. B., New Whatcom, Wash. Lawyer. John E. Davis, B. S., D. D. S., Oakland, Cal. Dentist. William D. Gilbert, A. B., Atchison, Kas. Lawyer. A. Judson White, A. B., Manhattan, Kas. Minister.

1875.

Reuben E. Lofinck, B. S., Manhattan, Kas. Merchant.

Alice E. (Stewart) Points, A. M., Omaha, Neb. Housewife and teacher.

1876.

George A. Gale, A. B., Mangona, Fla. Merchant.

Ella M. (Gale) Kedzie, A. B., Lansing, Mich. Teacher of art.

Nellie (Sawyer) Kedzie, M. S., Manhattan, Kas. Professor of Household Economy and Hygiene, Kansas State Agricultural College.

Carrie M. Kimball, A. B., Garden Grove, Cal. Art instructor.

Minerva E. (Whitman) Heiser, A. B., Lyndon, Kas. Housewife.

1877.

Ella S. Child, B. S., Manhattan, Kas. Dressmaker.

George H. Failyer, M. S., Manhattan, Kas. Professor of Chemistry, Kansas State Agricultural College.

John F. Griffing, M. S., Topeka, Kas. Merchant.

Walter C. Howard, B. S., Richmond, III. Minister.

Frederick O. Hoyt, B. S. Died in 1884.

Louis E. Humphrey, B. S., Chapman, Kas. Druggist.

James F. La Tourette, B. S., Idaho Springs, Colo. Miner.

Marion F. Leasure, B. S., La Cygne, Kas. Lawyer.

William Ulrich, M. S., Manhattan, Kas. Contractor and builder.

1878.

Albert N. Godfrey, M. S., —, Wash. Farmer and fruit grower.

Charles S. McConnell, B. S., Kansas City, Mo. Printer.

Geo. S. Platt, B. S. Died in 1878.

Amos E. Wilson, B. S., Leavenworth, Kas. Banker.

1879.

Arthur T. Blain, B. S., Lacanada, Cal. Nurseryman.

Etta (Campbell) Blain, B. S., Lacanada, Cal. Housewife.

Wilmer K. Eckman, B. S., Logansport, La. Lumber dealer.

Corvin J. Reed, B. S., St. Clere, Kas. Farmer.

Harry C. Rushmore, B. S., Topeka, Kas. Traveling salesman.

Wm. H. Sikes, B. S., Leonardville, Kas. Merchant and grain dealer.

Lewis A. Salter, B. S., Alva, O. T. Lawyer.

Ella (Vincent) McCormick, B. S., Clay Centre, Kas. Bookkeeper.

Clarence E. Wood, B. S., A. B., Erwin, O. T. Farmer.

1880.

Augustine Beacham, B. S., Seattle, Wash. Principal of schools.

Lizzie R. (Cox) Kregar, B. S., Milford, Kas. Housewife.

Emma (Hoyt) Turner, B. S., Cloquet, Wis. Housewife.

Emma (Knostman) Huse, B. S., Arkansas City, Kas. Housewife.

Grace (Parker) Perry, B. S., Ogden, Utab. Housewife.

Noble A. Richardson, B.S., San Bernardino, Cal. Superintendent of city schools.

Maria E. (Sickels) Davis, B. S., Chicago, Ill. Housewife.

1881.

Flora (Donaldson) Reed, B. S., St. Clere, Kas. Housewife.

Ulysses G. Houston, B. S., Concordia, Kas. Lecturer.

Fletcher M. Jeffrey, B. S., Cripple Creek, Colo. Lawyer.

William J. Jeffrey, B. S., Boston, Mass. Law student, Boston University.

Darwin S. Leach, B. S., —, Africa.

William J. Lightfoot, B. S., Cripple Creek, Colo. Deputy United States mineral surveyor.

Dalinda (Mason) Cotey, B. S., Logan, Utah. Professor of domestic economy, Utah Agricultural College.

Wirt S. Myers, B. S., Tampa, Fla. Furniture manufacturer.

1882.

J. Chester Allen, B. S. Died in 1885.
Ida (Cranford) Sloan, B. S., Stillwater, Cal. Housewife.
Edward V. Cripps, B. S., ———.
Warren Knaus, M. S., McPherson, Kas. Editor and postmaster.
Mattie E. (Mails) Coons, B. S., Manhattan, Kas. Housewife.
Allie S. (Peckham) Cordry, B. S., Belleville, Kas. Housewife.
Belle (Selby) Curtice, B. S., Kansas City, Mo. Housewife.
Burton L. Short, B. S., Kansas City, Kas. City clerk.
John A. Sloan, B. S., Stillwater, Cal. Farmer and nurseryman.

1883.

James W. Berry, B. S., Jewell City, Kas. Farmer, contractor, and builder. Mary C. Bower, B. S., Manhattan, Kas. Clerk.

Lewis W. Call, B. S., LL. M., Washington, D. C. Chief clerk, judge advocate general's office, U. S. war department.

Emma E. Glossop, B. S., Emporia, Kas. Student, State Normal School.

William J. Griffing, B. S., Manhattan, Kas. Farmer and fruit grower.

Phoebe E. Haines, M. S., Manhattan, Kas. Postgraduate student, Kansas State Agricultural College.

Hortense L. (Houston) Martin, B.S., Concordia, Kas. Housewife.

Jacob Lund, M. S., Manhattan, Kas. Fireman and steam fitter, Kansas State Agricultural College.

Katie I. (Meguire) Sheldon, B. S., Riverside, Cal. Housewife.

J. Dana Needham, B. S., Lane, Kas. Merchant.

Milan T. Ward, B. S., M. D., Orion, Ill. Physician.

Julius T. Willard, M. S., Manhattan, Kas. Assistant Professor of Chemistry, Kansas State Agricultural College.

1884.

Emmet S. Andress, B. S., Lakin, Kas. Farmer.

Florence J. Brous, B. S., Kansas City, Kas. Teacher.

Bartholomew Buchli, M. S., D. V. S., Alma, Kas. Teacher and farmer.

John H. Calvin, B. S., LL. B., Topeka, Kas. Lawyer.

Wm. A. Corey, B. S., Salt Lake City, Utah. Teacher and editor.

Henry M. Cottrell, M. S., Rhinecliff, N. Y. Superintendent of Ellerslie dairy farm.

Carrie F. (Donaldson) Brown, B. S., Portland, Ore. Housewife.

Florence A. Donaldson, B. S. Died in August, 1888.

Frank W. Dunn, B. S., Lawrence, Colo. Miner.

I. Day Gardiner, B. S., Bradford, Kas. Farmer.

Edwin H. Kern, B. S., Cripple Creek, Colo. Mining engineer.

Marion M. Lewis, B. S., Portland, Ore. Minister.

Charles L. Marlatt, M. S., Washington, D. C. First assistant in entomological division, United States department of agriculture.

Lincoln H. Neiswender, B. S., Silver Lake, Kas. Farmer.

Geo. C. Peck, B. S., Junction City, Kas. Printer.

Hattle L. (Peck) Berry, B. S., Jewell City, Kas. Housewife.

John W. Shartel, B. S., Guthrie, O. T. Lawyer.

1885.

Thomas Bassler, B. S. Teacher and nurseryman.

Albert Deitz, B. S., Kansas City, Mo. Merchant.

George E. Hopper, M. S., Arkansas City, Kas. Superintendent of waterworks.

Florence F. Hough, B. S., Melrose, Iowa.

Frank A. Hutto, B. S., Stillwater, O. T. Lawyer.

Allen Lewis, B. S., Chicago, Ill. Civil engineer.

Nellie J. Murphy, B. S., South Denver, Colo. Printer.

Arthur L. Noyes, B. S., Wabaunsee, Kas. Farmer. Clarence D. Pratt, B. S., Dallas, Tex. General agent paint company.

Rollin R. Rees, B. S., Minneapolis, Kas. County attorney.

Frederick J. Rogers, M. S., Ithaca, N. Y. Instructor in physics, Cornell University.

Dorothy E. C. (Secrest) Hungerford, B. S., Randolph, Kas. Housewife.

Grace Wonsetler, B. S., Verbeck, Kas. Teacher.

Effie E. (Woods) Shartel, B. S., Guthrie, O. T. Housewife.

1886.

Lillie B. Bridgeman, M. S., San Diego, Cal. Teacher of science.

Louis P. Brous, M. S., Kansas City, Kas. Architect.

Paul H. Fairchild, B. S., M. D., New York, N. Y. Publisher of medical journals.

Abbott M. Green, B. S., Adin, Cal. Civil engineer and teacher.

James G. Harbord, M. S., Fort Clark, Texas. Lieutenant Fifth cavalry, U. S. army.

John U. Higinbotham, B. S., Chicago, Ill. Treasurer gas company.

Maria C. (Hopper) Getty, B. S., Downs, Kas. Housewife.

E. Ada (Little) MacEwan, B. S., Logan, Utah. Housewife.

Frank L. Parker, B. S., Atchison, Kas. Merchant.

Edward H. Perry, B. S., Perry, O. T. Editor and publisher.

H. Augustus Platt, B. S., Guthrie, O. T. Editor.

Ada H. (Quinby) Perry, B. S., Perry, O. T. Housewife.

Ida H. (Quinby) Gardiner, Bradford, Kas. Housewife.

Minnie Reed, M.S. San Diego, Cal. Teacher of science.

David G. Robertson, B. S., Chicago, Ill. Lawyer.

Edward O. Sisson, B. S., Chicago, Ill. Principal South Side school.

John W. Van Deventer, B. S., Sterling, Colo. Editor and publisher.

George W. Waters, B. S., Junction City, Kas. Teacher.

William E. Whaley, B.S., Chicago, Ill. Instructor in history, South Side school.

F. Henrietta (Willard) Calvin, B. S., Topeka, Kas. Housewife.

John L. Wise, B. S., Smithboro, III. Merchant.

1887

Edgar A. Allen, B. S., Perris, Cal. Superintendent of Indian school.

Fred. H. Avery, B. S., Wakefield, Kas. Merchant.

Claude M. Breese, M. S., Manhattan, Kas. Assistant in chemistry, Kansas State Agricultural College.

John B. Brown, M. S., Ponca, I. T. Superintendent of Indian school.

Walter J. G. Burtis, B. S., Fredonia, Kas. Farmer.

Mark A. Carleton, M. S., Washington, D. C. Assistant in division of vegetable pathology, U. S. department of agriculture.

Nellie E. (Cottrell) Stiles, B. S., Helix, Cal. Housewife.

Bert R. Elliott, B. S., San Diego, Cal. Superintendent fruit farm.

Frederick B. Elliott, B. S., Manhattan, Kas. Real-estate and insurance agent. Clara M. Keyes, B. S., Henner, Cal. Teacher.

Fred. G. Kimball, B. S., Hastings, Neb. Railway postal clerk.

Frederick A. Marlatt, B. S., Manhattan, Kas. Assistant in entomology, Experiment Station, Kansas State Agricultural College.

William J. McLaughlin, B. S., Bern, Kas. Teacher and editor,

Mary E. Moses, B. S., Manhattan, Kas. At home.

Charles A. Murphy, B. S., Kingman, Kas. Superintendent of schools.

Orlando G. Palmer, B. S., LL. M., Perry, O. T. Superintendent of schools.

Louis B. Parker, B. S. Died in 1889.

James E. Payne, M. S., Cheyenne Wells, Colo. Superintendent college rainbelt experiment station.

Seward N. Peck, B. S., Topeka, Kas. Cabinet maker, railroad shops.

George N. Thompson, B. S., Belmond, Iowa. Mechanic.

Willis M. Wright, B. S., Jennings, La. Farmer.

1888.

Grant Arnold, B. S., Toledo, Wash. Teacher.

Bertha H. Bacheller, M. S., Junction City, Kas. Teacher.

Clement G. Clarke, B. S., New Haven, Conn. Student in Yale University.

Alexander C. Cobb, B. S., Wagoner, I. T. Farmer and carpenter.

Mattie (Cobb) Clarke, B. S., New Haven, Conn. Housewife.

Minnie H. Cowell, B. S., Going Villas, Steyning, Sussex, England. Hospital nurse.

Lyman H. Dixon, B. S., Buffalo, N. Y. Architect.

David G. Fairchild, M. S., Britenzorg, Java. Special student in botany.

Carl E. Friend, B. S., Soldier, Kas. Banker.

John R. Harrison, B. S., Salina, Kas. Railway postal clerk.

Humphrey W. Jones, B. S., Alma, Kas. Principal of schools.

Nathan E. Lewis, B. S., Chicago, Ill. Architect.

Abbie L. Marlatt, M. S., Providence, R. I. Teacher of domestic science, manual training high school, Providence, R. I.

William C. Moore, B. S., Junction City, Kas. Editor and publisher.

Ernest F. Nichols, B. S., Berlin, Ger. Professor of physics, Colgate University, Hamilton, N. Y., on leave of absence for study.

Harry E. Robb, B. S., Eureka, Kas. Farmer and county surveyor.

Anna Snyder, B. S., Emporia, Kas. Student, State Normal School.

Edwin H. Snyder, B. S., Highlands, Colo. Editor.

Oliver L. Utter, B. S., Axtell, Kas. Minister.

Aaron Walters, B. S. Died in 1892.

Lora L. Waters, M. S., Manhattan, Kas. Teacher.

Daniel W. Working, jr., B. S., Fort Collins, Colo. Secretary state board of agriculture.

1889.

Emma A. Allen, B. S. Died in 1891.

Joseph W. Bayles, B. S., Ottawa, Kas. Student of theology.

Walter R. Browning, B. S., Russell-Springs, Kas. Farmer.

David E. Bundy, B. S., Leavenworth, Kas. Minister.

Samuel S. Cobb, B. S., Wagoner, I. T. Druggist and postmaster.

Judson H. Criswell, B. S., Manhattan, Kas. Farmer.

Mattie I. (Farley) Carr, B. S., Oro, Wash. Housewife.

Clarence E. Freeman, M. S., Chicago, Ill. Special-student in electricity, Armour Institute, Chicago, Ill.

Hattie L. (Gale) Sanders, B. S., Mangona, Fla. Housewife.

John S. Hazen, B. S., Des Moines, Iowa. United States weather bureau observer.

Albert B. Kimball, B. S., Scandia, Kas. Editor.

William Knabb, B. S., Hiawatha, Kas. Bank clerk.

Mary C. Lee, B.S., Manhattan, Kas. Postgraduate student, Kansas State Agricultural College.

Alonzona. Mills, B. S., Legan, Utah. Agriculturist, Utah Agricultural Experiment Station.

Susan W. Nichols, B. S., St. Joseph, Mo. Music teacher.

Walter H. Olin, M. S., Osborne, Kas. Superintendent of schools.

Eli M. Paddleford, B. S., Rossville, Kas. Minister.

Maude F. Sayers, B. S., Ottawa, Kas. Bookkeeper.

Florine Secrest, B. S., Madison, Cal. Teacher.

Stanley Snyder, B. S., Oskaloosa, Kas. Farmer.

Charles W. Thompson, B. S., Holton, Kas. Dentist.

Jane C. Tunnell, B. S., Chicago, III. Student, Chicago University.

Ina M. (Turner) Bruce, B. S., St. Louis, Mo. Housewife.

Robert U. Waldraven, B. S., Hillside, Kas. Minister.

Henry S. Willard, B. S., M. D., Topeka, Kas. Assistant superintendent state insane asylum.

1890.

Samuel I. Borton, B. S., Virgil, Kas. Teacher.

Frank A. Campbell, B. S., Highlands, Colo. Reporter.

Arthur F. Cranston, B. S., Parsons, Kas. Lawyer.

John Davis, B. S., Ashland, Kas. Principal of schools.

Grant W. Dewey, B. S., Manhattan, Kas. Photographer.

Charles J. Dobbs, B. S., Topeka, Kas. Lawyer.

Charles W. Earle, B. S., Denver, Colo. Advertising agent.

Schuyler C. Harner, B. S., Leonardville, Kas. Teacher and farmer.

John W. Ijams, B. S., Orlando, O. T. Teacher.

Bertha S. Kimball, M. S., Manhattan, Kas. Postgraduate student and microscopic draughtsman, Kansas State Agricultural College.

Harriet E. Knipe, B. S., Manhattan, Kas. Teacher.

Nellie P. Little, B. S., Manhattan, Kas. Teacher.

Ellsworth Thomas Martin, B. S., Georgetown, Colo. Miner and solicitor.

Silas C. Mason, M.S., Manhattan, Kas. Professor of Horticulture, Kansas State Agricultural College.

Wilton L. Morse, B. S., Mancos, Colo. Farmer.

Albert E. Newman, B. S., Watonga, O. T. County superintendent and editor.

Julia R. Pearce, B. S., Manhattan, Kas. Librarian, State Agricultural College.

Emil C. Pfuetze, B. S., Burlington, Kas. Superintendent of water-works.

William H. Sanders, B. S., Mangona, Fla. Plumber and builder.

Emma Secrest, B. S., Stockton, Cal. Teacher.

Mary B. Senn, M. S., Fargo, N. D. Instructor in domestic economy, State Agricultural College.

Ralph Snyder, B. S., Oskaloosa, Kas. Farmer and teacher.

George E. Stoker, B. S., Topeka, Kas. Lawyer.

Walter T. Swingle, B. S., Naples, Italy. Special student in botany.

Gilbert J. Van Zile, B. S., Carthage, Ill. Farmer.

Harry N. Whitford, B. S., Council Grove, Kas. Principal of schools.

Thomas E. Wimer, B. S. Died in 1890.

1891.

William Aaron Anderson, B. S., Van Buren, Ark. Bookkeeper.

William Sherman Arbuthnot, B. S., D. V. S., Republic, Kas. Veterinary surgeon and druggist.

Herman William Avery, B. S., Wakefield, Kas. Farmer.

Judd Noble Bridgman, M. S., Good Intent, Kas. Farmer.

Robert James Brock, B. S., Manhattan, Kas. Lawyer.

Francis Charles Burtis, M. S., Manhattan, Kas. Assistant in agriculture, Experiment Station, Kansas State Agricultural College.

Charles Albert Campbell, B. S., Auburn, N.Y. Student of theology, and instructor in logic and rhetoric, Auburn Seminary.

Spencer Norman Chaffee, B. S., Riley, Kas. Teacher.

Ephraim Clay Coburn, B. S., Kansas City, Kas. Clerk-in packing-house.

Gertrude Coburn, B. S., Ames, Iowa. Professor of household economy, Iowa State Agricultural College.

Tina Louise Coburn, B. S., Topeka, Kas. Clerk in office of secretary of the state board of agriculture.

Rachel Callie (Conwell) Thoburn, B. S., Syracuse, Kas. Housewife.

Christine Mossman Corlett, B. S., Guthrie, O. T. Teacher.

Mary Emmeline Cottrell, M. S., Wabaunsee, Kas. At home.

Phil Sheridan Creager, B. S., Kansas City, Mo. Editor.

Kary Cadmus Davis, B. S., Austin, Minn. Principal state high school.

Thomas Clarke Davis, B. S., Benedict, Kas. Farmer.

Helen Pearl (Dow) Peck, B. S., New York, N. Y. Housewife.

Anna (Fairchild) White, B. S., Manhattan, Kas. Housewife.

Harry Benson Gilstrap, B. S., Chandler, O. T. Editor and publisher.

Almon Arthur Gist, B. S., Fort Riley, Kas. Telegraph operator and station agent.

Amy Myrtle Harrington, B. S., Manhattan, Kas. Teacher.

Delpha May Hoop, B. S., Manhattan, Kas. Teacher.

Mayme Amelia (Houghton) Brock, B. S., Manhattan, Kas. Housewife.

Willis Wesley Hutto, B. S., Manhattan, Kas. Teacher.

George Victor Johnson, B. S., Sedan, Kas. Editor.

Frank Mullett Linscott, B. S., D. V. S., Hiawatha, Kas. Stock-raiser.

Bessie Belle Little, B. S., Manhattan, Kas. At-home.

Albert Edward Martin, B. S., Streator, Ill. Manager telephone company.

Nellie Evangeline (McDonald) Thayer, B. S., Pawnee, O. T. Housewife.

David Collins McDowell, B. S., Cripple Creek, Colo. Miner.

Alfred Midgley, B. S., Minneapolis, Kas. Clerk.

Madeleine Wade Milner, B. S., Chicago, Ill. At home:

Paul Chambers Milner, B. S., Blue Island, Ill. Stenographer in railroad office.

Harry Elbridge Moore, B. S., Kansas City, Mo. Bookkeeper.

John Otis Morse, B. S., Mound City, Kas. Farmer.

Hattie May Noyes, B. S., Wabaunsee, Kas. Teacher.

Louise Reed, B. S., Selkirk, Kas. Teacher.

Artemus Jackson Rudy, B. S., Fresno, Cal. Fruit raiser.

Henry Vernon Rudy, B. S., Fresno, Cal. Fruit raiser.

Lottie Jane Short, M. S., Port Deposit, Md. Professor of domestic economy, Tome Institute.

Ben Skinner, B. S., M. D., Kansas City, Mo. Physician.

Caroline Scott (Stingley) Van Blarcom, B. S., Kansas City, Kas. Housewife.

Lillian Alice St. John, B. S., Manhattan, Kas. Teacher.

Ellis Cheney Thayer, B. S., Pawnee, O. T. Principal of Indian school.

Sam L. Van Blarcom, B. S., Kansas City, Kas. Railway postal clerk.

Frank Albert Waugh, M. S., Burlington, Vt. Professor of horticulture in Vermont University.

Fannie Elizabeth Waugh, B. S., Marquette, Kas. Teacher.

Flora Emilie Wiest, B. S., Watrous, N. M. Teacher.

Bertha Winchip, B.S., Manhattan, Kas. At home.

Alfred Orin Wright, B. S., Lake Arthur, La. Editor.

Effie Jeanetta Zimmerman, B.S., Manhattan, Kas. Postgraduate student, Kansas State Agricultural College.

1892.

Grace Maria Clark, B. S., Manhattan, Kas. Clerk in executive offices and postgraduate student, Kansas State Agricultural College.

George L. Clothier, B. S., Manhattan, Kas. Postgraduate student, Kansas State Agricultural College.

Lillian Clyde Criner, B. S., Oakley, Kas. Teacher.

Harry Darnell, B. S., Gardner, Kas. Teacher.

William H. Edelblute, B. S., Farmington, Wash. Teacher.

Elizabeth Edwards, B. S., Randolph, Kas. Teacher.

John Frost, B. S., Emporia, Kas. Student, State Normal School.

Effic Gilstrap, B. S., Chandler, O. T. Editor and publisher.

Ava (Hamill) Tillotson, B. S., Hill City, Kas. Housewife.

J N Harner, B. S., Corinth, Miss. Teacher. Junction

Loyall S. Harner, B. S., Emperia, Kas. Student, State Normal School.

Charles Pinckney Hartley, B. S., Fraser, Idaho. Horticulturist.

John William Abraham Hartley, B. S., Manhattan, Kas. Teacher and horticulturist.

James Laird McDowell, B. S., Cripple Creek, Colo. Miner.

Robert A. McIlvaine, B. S., Emporia, Kas. Student, State Normal School.

Kate (Oldham) Sisson, B. S., Toronto, Can. Housewife.

Daniel Henry Otis, B. S., Manhattan, Kas. Assistant in agriculture, Experiment Station, Kansas State Agricultural College.

Ivan Bryan Parker, B. S., M. D., Hill City, Kas. Physician.

Warner S. Pope, B. S., Lawrence, Kas. Law student, State University.

Burton Homer Pugh, B. S., Oakland, Kas. Farmer.

Elias W. Reed, B. S., Avoca, Kas, Farmer.

Robert Stirling Reed, B. S., Elmdale, Kas. Teacher.

Arthur Daniel Rice, B. S., West Cliff, Colo. Teacher.

Fred. C. Sears, E. S., Manhattan, Kas. Assistant in horticulture, Experiment Station, Hansas State Agricultural College.

Birdie E. Secrest, B. S., Randolph, Kas. Clerk.

May Secrest, B. S., Randolph, Kas. At home.

Ruth Tipton Stokes, B. S., Manhattan, Kas. Assistant in domestic economy, and postgraduate-student, Kansas State Agricultural College.

Harry W. Stone, B. S., Portland, Ore. General secretary Y. M. C. A.

Walter Percival Tucker, B. S., Rock, Kas. Teacher.

Mary Alice (Vail) Waugh, B. S., Burlington, Vt. Housewife.

Robert Lynn Wallis, B. S. Died in 1895.

Ora Rebecca Wells, B. S., Irving, Kas. Teacher.

Daniel F. Wickman, B. S., Topeka, Kas. Market gardener.

George Washington Wildin, B. S., San-Luis-Potesi, Mexico, Mechanical engineer,

Charles Ernest Yeoman, B. S., La Crosse, Kas. Clerk of district court.

1893.

Edmund Clarence Abbott, B. S., Trinidad, Colo. Lawyer.

Edwin McMaster Stanton Curtis, B. S., Detroit, Mich. Clerk in railroad office. Corinne Louise (Daly) Burtis, B. S., Manhattan, Kas. Housewife.

Laura Greeley Day, B. S., Menominee, Wis. Instructor in household economy, Stout Manual Training School.

Ione (Dewey) Earle, B. S., Manhattan, Kas.

Albert Dickens, B. S., Bushton, Kas. Teacher.

Mary Maud Gardiner, B. S., Manhattan, Kas. Postgraduate student, Kansas State Agricultural College.

Susie (Hall) Linscott, B. S., Hiawatha, Kas. Housewife.

Mary Frances Burgoyne Harman, B. S., Valley Falls, Kas. Teacher.

Ivy Frances Harner, B. S., Manhattan, Kas. Postgraduate student, Kansas, State Agricultural College.

Margaretha Elise Horn, B. S., Ann. Arbor, Mich. Postgraduate student, State University.

Marcia Ione Hulett, B. S., Kirksville, Mo. Student school of osteopathy.

Mac F. Hulett, B. S., Kirksville, Mo. Student school of osteopathy.

Fred. Hulse, B. S., Keats, Kas. Farmer.

Charles Augustus Kimball, B. S., Junction City, Kas. Lawyer.

Maude Ethel Knickerbocker, B. S., Spearfish, S. D. Student, State Normal School.

Thomas Eddy Lyon, B. S., Keats, Kas. Farmer and teacher.

William Otis Lyon, B. S., Bala, Kas. Teacher.

McLeod Wilson McCrea, B. S., Bostwick, Neb. Teacher.

Rose Edith McDowell, B. S., Manhattan, Kas. At home.

George Lane Melton, B. S., Winfield, Kas. Insurance and loan agent.

Eusebia DeLong Mudge, B. S., Eskridge, Kas. Bookkeeper.

Nora Newell, B. S., Vinton, Kas. Teacher.

August Fred. Niemoller, B. S., Emporia, Kas. Student, State Normal School. Susie Amanda Noyes, B. S. Died in 1894.

Henry Leamer Pellett, B. S., Prairie Center, Kas. Farmer.

Charles John Peterson, B. S., Emporia, Kas. Student, State Normal School.

Carl Frederic Pfuetze, B. S., Kansas City, Mo. Railway postal clerk.

John Dewitt Riddell, B. S., M. D., Kansas City, Mor Physician.

John Albert Rokes, B. S., Onage, Kas. Law student.

Agnes (Romick) Edgar, B. S., Menlo, Kas. Housewife.

Fred. Raymond Smith, B. S., Gillett, Colo. Lawyer.

George Wildman Smith, B. S., Emporia, Kas. Student, State Normal School.

William Elmer Smith, B. S., Riley, Kas. Principal of schools.

John Eugene Thackrey, B. S., Crawford; Neb. Minister.

Joseph B. Thoburn, B. S., Syracuse, Kas. Irrigation farmer and horticulturist. Charles Henry Thompson, B. S., St. Louis, Mo. Assistant in Missouri Botanical Gardens.

George K. Thompson, B. S., Irving, Kas. Stock buyer.

William James Yeoman, B. S., Kinsley, Kas. Principal of schools.

1894.

Frank Weber Ames, B. S., Chicago, Ill. Clerk.

Clara Francelia Castle, B. S., Manhattan, Kas. Postgraduate student, Kansas State Agricultural College.

George Luther Christensen, B. S., Manhattan, Kas. Postgraduate student, Kansas State Agricultural College.

John Cornelius Christensen, B. S., Mariadahl, Kas. Teacher.

Lorena Estella Clemons, B. S., Manhattan, Kas. Clerk in Secretary's office, and postgraduate student, Kansas State Agricultural College.

Martha Cottrell, B. S., Wabaunsee, Kas. At home.

Sarah Esther (Cottrell) Wright, B. S., Jennings, La. Housewife.

Alverta May Cress, B.S., Manhattan, Kas. Pestgraduate student, Kansas State Agricultural College.

Fannie Jane Cress, B. S., Steubenville, Ohio. Student, normal school.

Ernest A. Donaven, B. S., Koshkonong; Mo. Horticulturist.

Jephthah W. Evans, B. S., Manhattan, Kas. Teacher.

Isabelle Russell Frisbie, B.S., Manhattan, Kas. Assistant in sewing, and postgraduate student, Kansas State Agricultural College.

Eugene Leonard Frowe, B. S., Louisville, Kas. Farmer.

Walter Harling, B. S., Manhattan, Kas. Teacher.

Lorena Marguerite Helder, B. S., Manhattan, Kas. Postgraduate student, and student histructor, Kansas State Agricultural College.

Mark V. Hester, B. S., Haviland, Kas. Farmer and teacher.

Charles Ross Hutchings, B. S., Pomona, Kas. Farmer,

Isaac Jones, jr., B.S., Oakley, Kas. Assistant in irrigation, Kansas experiment station.

Stella Victoria Kimball, B. S., Manhattan, Kas. Teacher,

Mary Eliza Lyman, B. S., Manhattan, Kas. At home.

William Henry Moore, B.S., Manhattan, Kas. Horticulturist and postgraduate student, Kansas State Agricultural College.

Sarah (Moore) Foster, B. S., Mont Ida, Kas. Housewife.

James Francis Odle, B. S., Ithaca, N. Y. Student, Cornell University.

Charles Randolph Pearson, B. S., Hoxie, Kas. County superintendent.

Horace Greeley Pope, B. S., Lawrence, Kas. Student, State University.

Minnie Louisa Romick, Niles, Kas. Teacher.

Winnie Luella (Romick) Chandler, B. S., Argentine, Kas. Housewife.

Victor Irvin Sandt, B.S., Marysville, Kas. Teacher.

John Alfred Scheel, B. S., Emporia, Kas. Student, State Normal School.

Jacob Ulrich Secrest, B.S., Randolph, Kas. Farmer.

Charles Chrisfield Smith, B. S., Greencastle, Ind. Student, De Pauw University.

Jennie Ruth Smith, B. S., Randolph, Kas. Teacher. Wesley Ohio Staver, B. S., Kansas City, Mo. Law student. John Stingley, B. S., Manhattan, Kas. Traveling salesman. John Edwin Taylor, B. S., Baldwin, Kas. Student, Baker University. Delbert L. Timbers, B. S., Beloit, Kas. Teacher. Phebe Carey Turner, B. S., Maple Hill, Kas. At home. Samuel Robert Vincent, B. S., Orie, O. T. Farmer. Lucy Helena Waters, B. S., Manhattan, Kas. Teacher.

1895. Edward Jones Abell, B. S., Wakefield, Kas. Principal of schools Carl D. Adams, B. S., Osawkie, Kas. Teacher. Robert John Barnett, B. S., Emporia, Kas. Student, State Normal School. Burton Wesley Conrad, B. S., Capioma, Kas. Farmer. Florence Ruth Corbett, B. S., Manhattan, Kas. Teacher. Sid Henry Creager, B. S., journalist, Kansas City, Mo. Elsie Emeline Crump, B. S., Manhattan, Kas. Teacher. David Thomas Davies, B. S., Manhattan, Kas. Farmer. Frank Andrew Dawley, B. S., Vincent, Kas. Farmer and teacher. Daisy Day, B. S., Manhattan, Kas. Postgraduate student, Kansas State Agricultural College. Flora Day, B. S., Manhattan, Kas. At home. George Adam Dean, B. S., Topeka, Kas. Farmer. Lillie Christena Dial, B. S., Cleburne, Kas. Teacher. Lucy Ellis, B. S., Havensville, Kas. Teacher. Victor Emrick, B. S., St. Mary's. Teacher. George Forsyth, B. S., Howard, Kas. Ernest Harrison Freeman, B. S., North Topeka, Kas. Florence Eleanor Fryhofer, B. S., Randolph, Kas. Teacher. George William Fryhofer, B. S., Sioux City, Iowa. General secretary. Young Men's Christian Association.

Oscar Hugo Halstead, B. S., Emporia, Kas. Student, State Normal School.

Hortensia Harman, B. S., Valley Falls, Kas. At home.

John Bright Harman, Valley Falls, Kas. Farmer.

Clarence V. Holsinger, B. S., Rosedale, Kas. Fruit raiser.

Christian Andrick Johnson, B. S., Success, Kas. Farmer.

John James Johnson, B. S., Success, Kas. Farmer.

Fred. Ralph Jolly, B. S., Manhattan, Kas. Printer.

William Irvin Joss, B. S., Fairview, Kas. Teacher.

Maud Estella Kennett, B. S., Silver-Lake, Kas. At home.

Myron Arthur Limbocker, B. S., Lawrence, Kas. Student, State University.

Samuel Alexander McDowell, B. S., Manhattan, Kas. Clerk.

Laura Sarah McKeen, B. S., Manhattan, Kas. Postgraduate student, Kansas State Agricultural College.

Theo. Wattles Morse, B. S., Mound City, Kas. Postgraduate student, and student assistant, Kansas State Agricultural College.

Oscar Albert Otten, B. S., Brenner, Kas. Teacher and farmer.

William Hackworth Painter, B. S., Meade, Kas. Farmer.

Charles Wesley Pape, B. S., Manhattan, Kas. Postgraduate student, Kansas State Agricultural College.

Ethel Patten, B. S., Silver Lake, Kas. At home.

John Vernon Patten, B. S., Silver Lake, Kas. Farmer. William H. Phipps, B. S., White City, Kas. Principal of schools. Alice Julia Quintard, B. S., Silver Lake, Kas. At home. Frederick Ellsworth Rader, B. S., Manhattan, Kas. Teacher. Ralph Waldo Rader, B. S., Manhattan, Kas. Farmer. Ada Rice, B. S., Manhattan, Kas. Teacher-and postgraduate student, Kansas State Agricultural College. Benjamin Franklin Simeon Royer, B. S., St. Joseph, Mo. Teacher. Charles Baxter Selby, B. S., Enid, O. T. Farmer. Mabel Gertrude Selby, B. S., Manhattan, Kas. At home. Ernest P. Smith, B. S., Manhattan, Kas. Carpenter. Frederick John Smith, B.S., Manhattan, Kas: Postgraduate student, and printer, Kansas State Agricultural College. Kitty Myrtle Smith, B. S., Manhattan, Kas. At home. Marietta Smith, B. S., Manhattan, Kas. At home. William Henry Steuart, B. S., Victor, Colo. Mining engineer. Cora Idella Stump, B. S., Manhattan, Kas. At home. Dora (Thompson) Winter, B. S., Blue Rapids, Kas. Housewife. Elven Creveling Trembly, B. S., Council Grove, Kas. Farmer. George Carpenter Wheeler, B. S., New York, N. Y. Mary Elizabeth Willard, B. S., Wamego, [Wabaunsee.] Teacher. Olive Mabel (Wilson) Holsinger, B. S., Rosedale, Kas. Housewife. Ora Gertrude Yenawine, B. S., Manhattan, Kas. Teacher. 🤌

SUMMARY.

The number of graduates up to 1896 is 454, of whom 157 are women. Graduates previous to 1877 pursued, with two exceptions, a classical course, and received the degree of bachelor of arts. Since 1877, all have received the degree of bachelor of science, after a four years' course in the sciences, with good English training.

Of the 297 men, 7 are deceased, and the remainder are reported in the following occupations:

Farmers	49
Fruit growers, nurserymen, and gardeners	13
Dairyman	1
Professors and instructors in agricultural colleges	5
Assistants in agricultural experiment stations	8
Journalists	2
Assistants in U. S. department of agriculture	2
Secretary state board of agriculture	1
Teachers and students of special sciences	15
Veterinary surgeon	1
Mechanics	3
Civil, electrical and mechanical engineers	8
Contractors and builders	5
Architects and draughtsmen	3
General business men	18
Merchants	12
Printers	4
Telegraph operators and railroad agents	2
Photographer	1

Superintendents of public schools	
Teachers in public schools	47
Teachers in Indian schools	
Students in other institutions	17
Officer in U. S. army	1
Observer in U. S. weather scrvice	1
Physicians and students of medicine	6
Druggists	2
Dentists	2
Editors	1 .4
Ministers	
Secretaries Y. M. C. A	2
Lawyers and students of law	23
Officials and official clerks	11
Railway postal clerks	Ę
Lecturer	1
Publishers	_
Irrigation horticulturist	
Miners	
Unknown	E
Total	215
In two occupations	
In two occupations	
In two occupations	290
-	290
In two occupations	290
Of the 157 women, 5 are deceased, and the remainder are occupied as lows:	290 fol-
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Of the 157 women, 5 are deceased, and the remainder are occupied as lows: Housewives At home	290 fol- 52
Of the 157 women, 5 are deceased, and the remainder are occupied as lows: Housewives At home Instructor in sewing	290 fol- 52 18
Of the 157 women, 5 are deceased, and the remainder are occupied as lows: Housewives At home Instructor in sewing. Teachers in household economy	290 fol- 52 18
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Of the 157 women, 5 are deceased, and the remainder are occupied as lows: Housewives At home Instructor in sewing Teachers in household economy Teachers in public schools Bookkeepers	290 fol- 52 18 1 6 34
Of the 157 women, 5 are deceased, and the remainder are occupied as lows: Housewives At home Instructor in sewing Teachers in household economy Teachers in public schools Bookkeepers Teachers and students of special sciences.	290 fol- 52 18 1 6 34 3
Of the 157 women, 5 are deceased, and the remainder are occupied as lows: Housewives At home Instructor in sewing. Teachers in household economy Teachers in public schools. Bookkeepers Teachers and students of special sciences. Teacher of music.	290 fol- 52 18 1 6 34 3 18
Of the 157 women, 5 are deceased, and the remainder are occupied as lows: Housewives At home Instructor in sewing Teachers in household economy Teachers in public schools Bookkeepers Teachers and students of special sciences. Teacher of music. Teachers of art	290 fol- 52 18 1 6 34 3 18
Of the 157 women, 5 are deceased, and the remainder are occupied as lows: Housewives At home Instructor in sewing. Teachers in household economy Teachers in public schools. Bookkeepers Teachers and students of special sciences. Teacher of music. Teachers of art Clerks or stenographers	290 fol- 52 18 1 6 34 3 18 1 2 5
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CALENDAR.

1896-197.

FALL TERM: September 10 to December 19.

WINTER TERM: January 5 to March 27. Spring Term: March 30 to June 10.

June 10, Commencement.

1897-'98.

FALL TERM: September 9 to December 18.